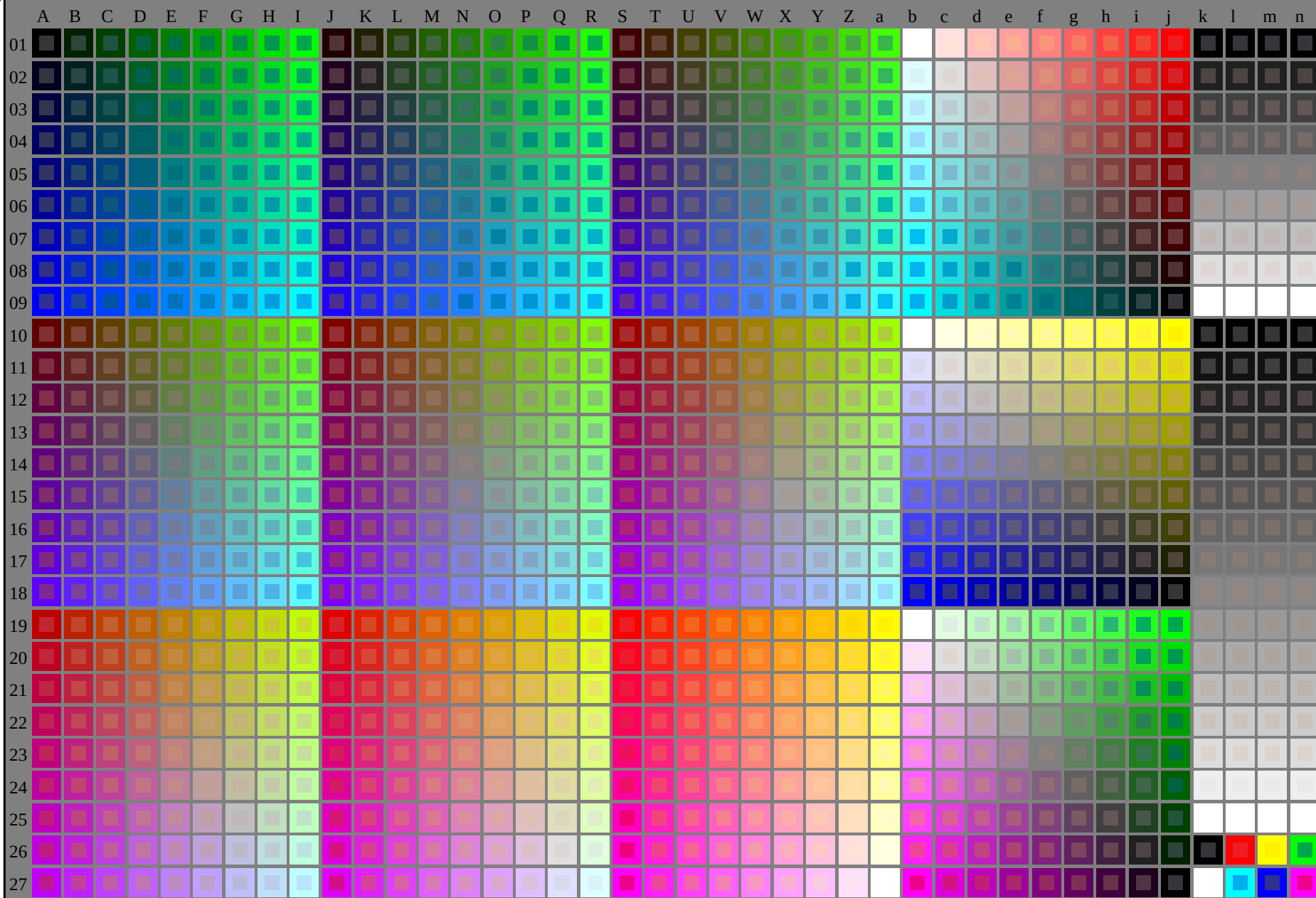


see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output

TUB material: code=rha4ta



1-003030-L0

SE190-7N

Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): **rgb + cmy0** (A-j + k26_n27), 000n (k), w (l), nnn0 (m), www (n), 3D = 0

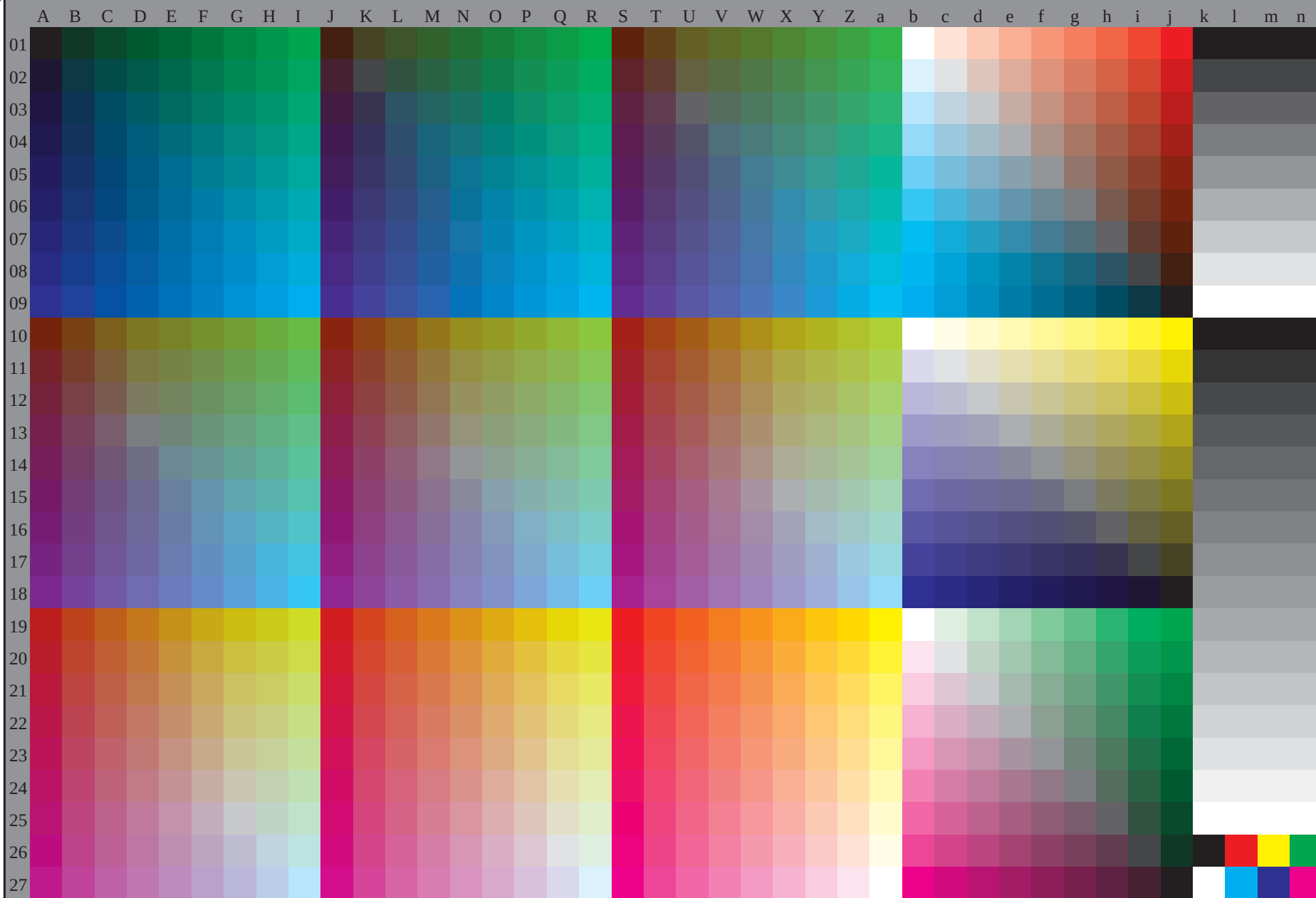
TUB-test chart SE19; 1080 standard colours
Test chart according to DIN 33872

input: *rgb/cmyk* -> *rgb/cmyk*
output: no change

http://130.149.60.45/~farbmetrik/SE19/SE19L0NP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 2/33

see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, separationcmykn6 (CMYK)
TUB material: code=rha4ta



1-003130-L0

SE190-70

Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): $rgb(A_n, 3D=0)$

TUB-test chart SE19; 1080 standard colours

Test chart according to DIN 33872, 3D=0, de=0, cmyk

input: $rgb/cmyk \rightarrow rgb_d$ output: transfer to $cmyk_d$

1-003130-F0

C

M

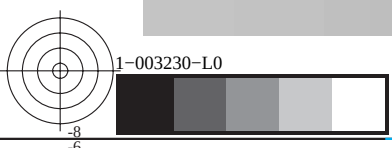
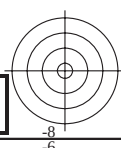
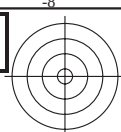
Y

O

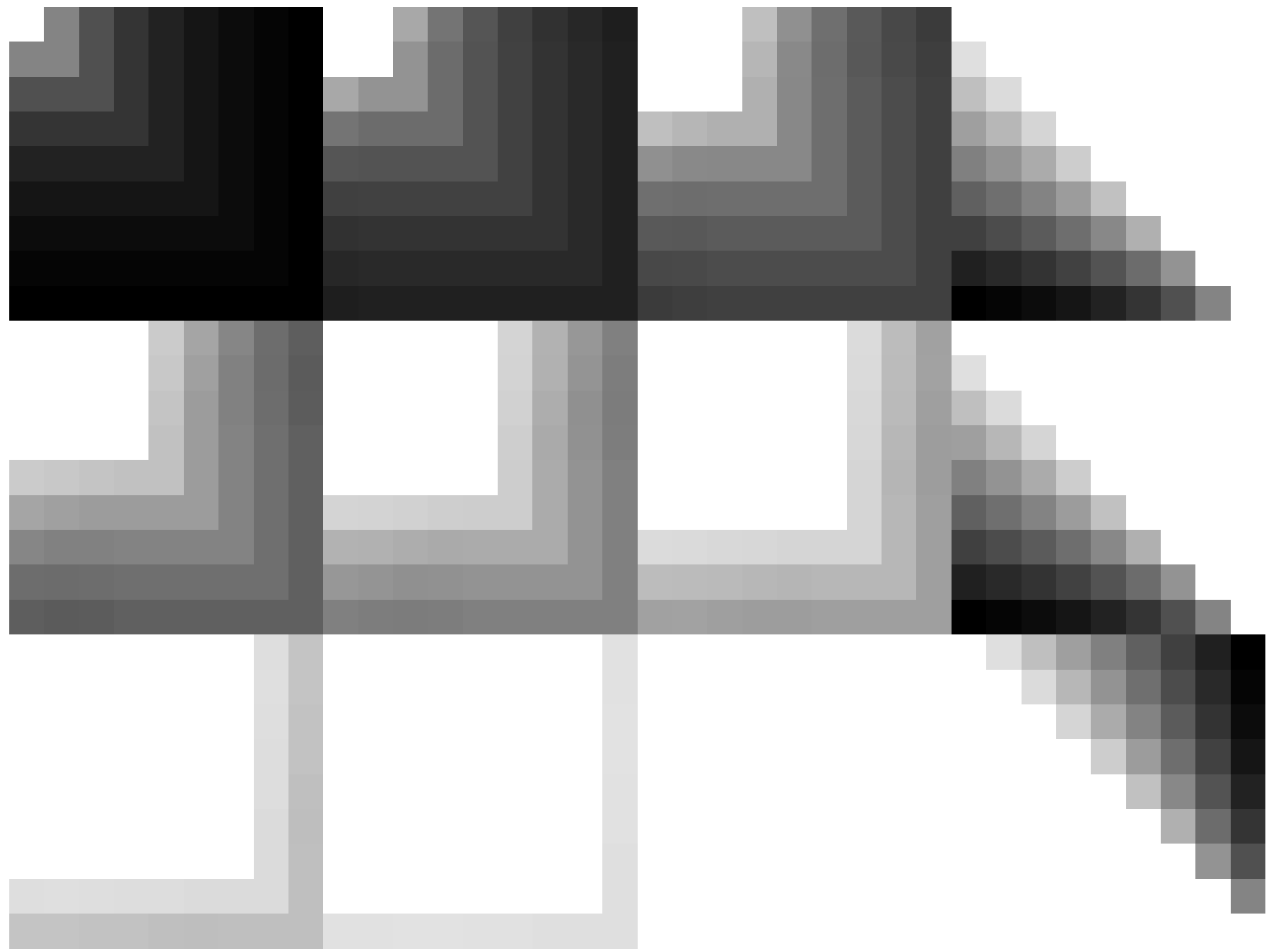
L

V

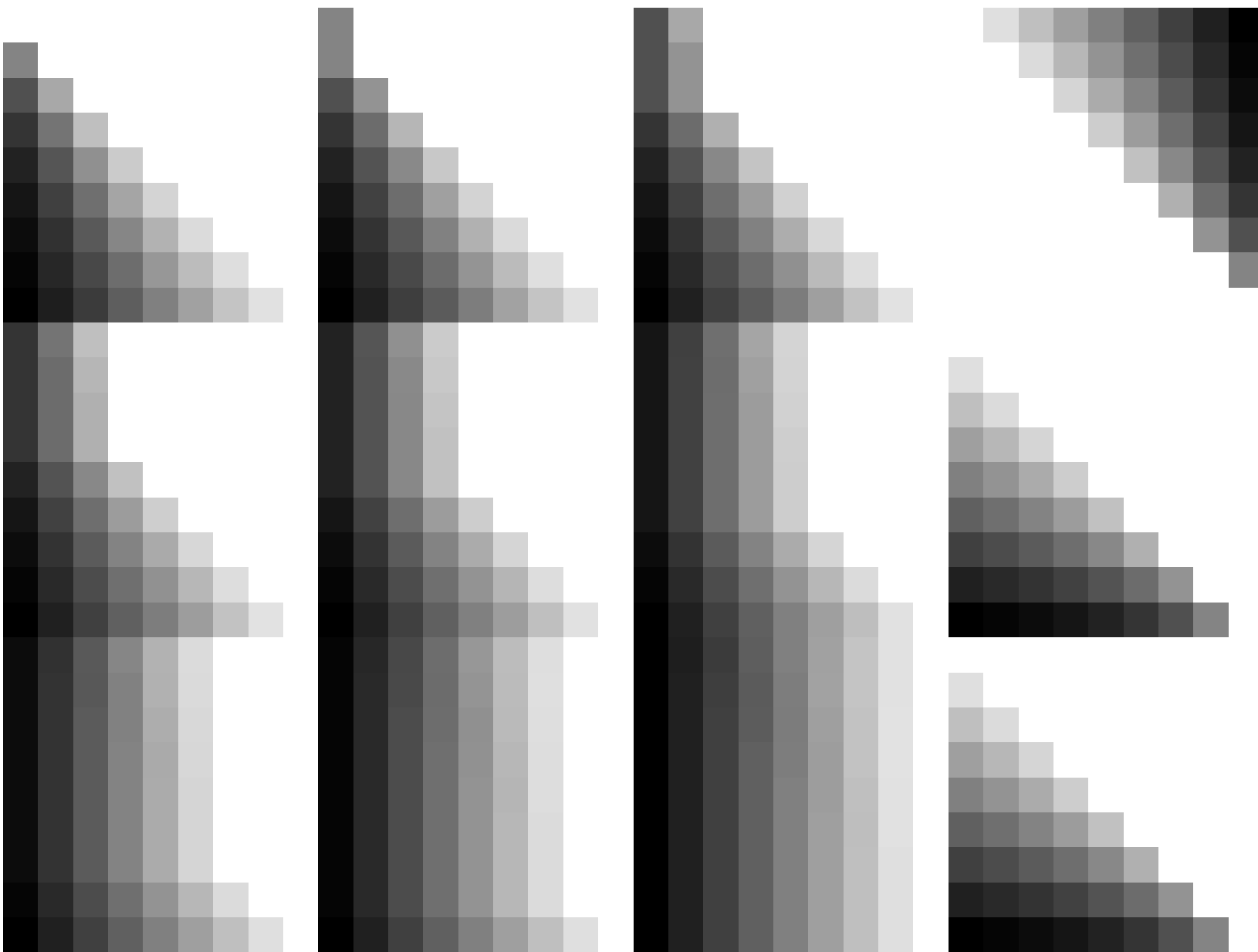
C



see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

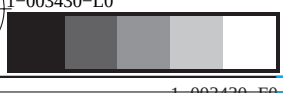
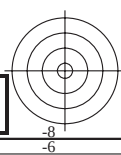
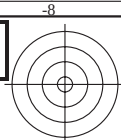


see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



TUB-test chart SE19; 1080 standard colours
Test chart according to DIN 33872, 3D=0, de=0, cmyk

input: *rgb/cmyk* -> *rgb_d*
output: transfer to *cmyk_d*

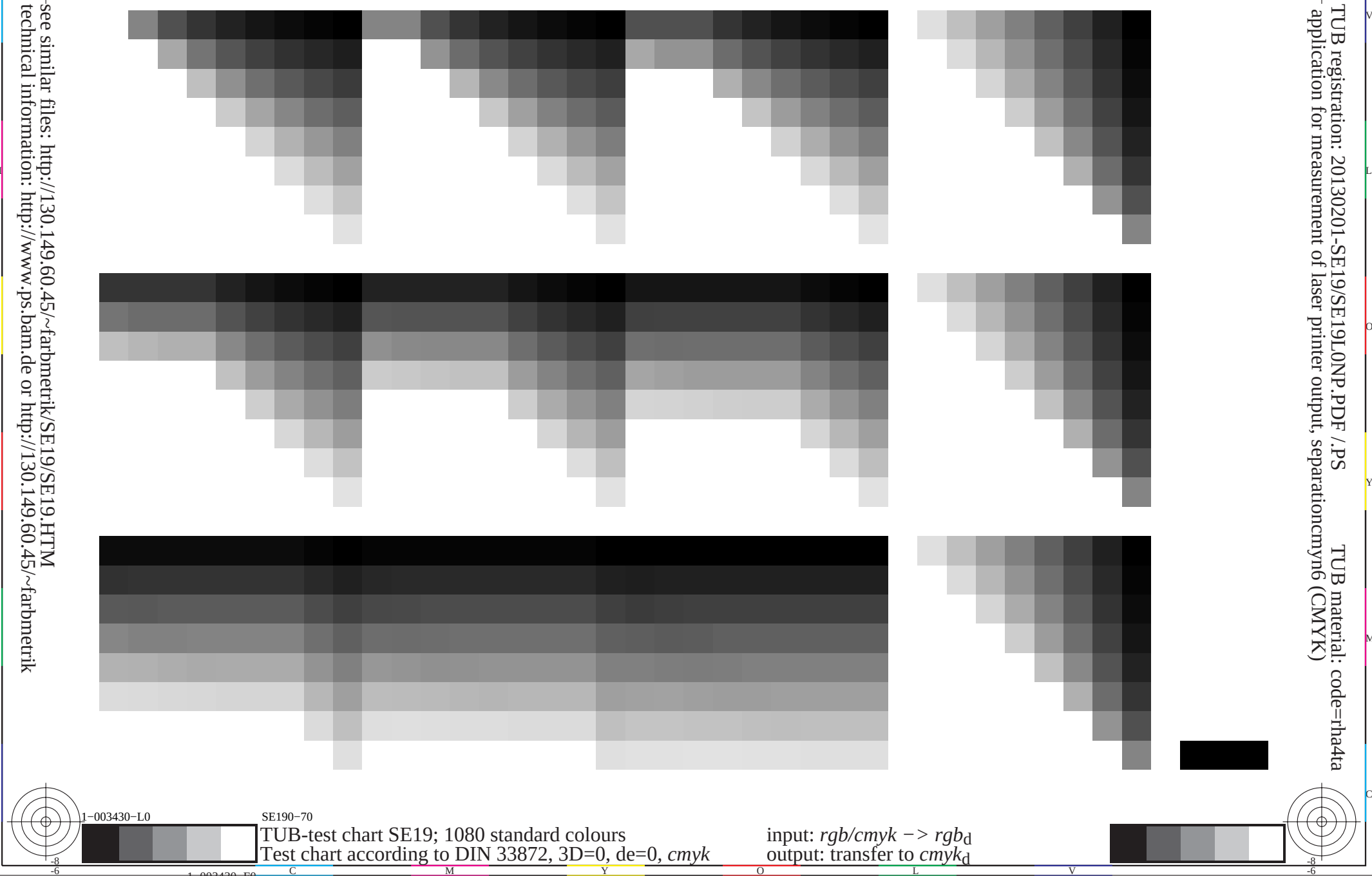
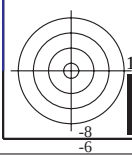
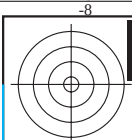


<http://130.149.60.45/~farbmetrik/SE19/SE19L0NP.PDF> /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 5/33

1-003430-L0 SE190-70
TUB-test chart SE19; 1080 standard colours
Test chart according to DIN 33872, 3D=0, de=0, cmyk

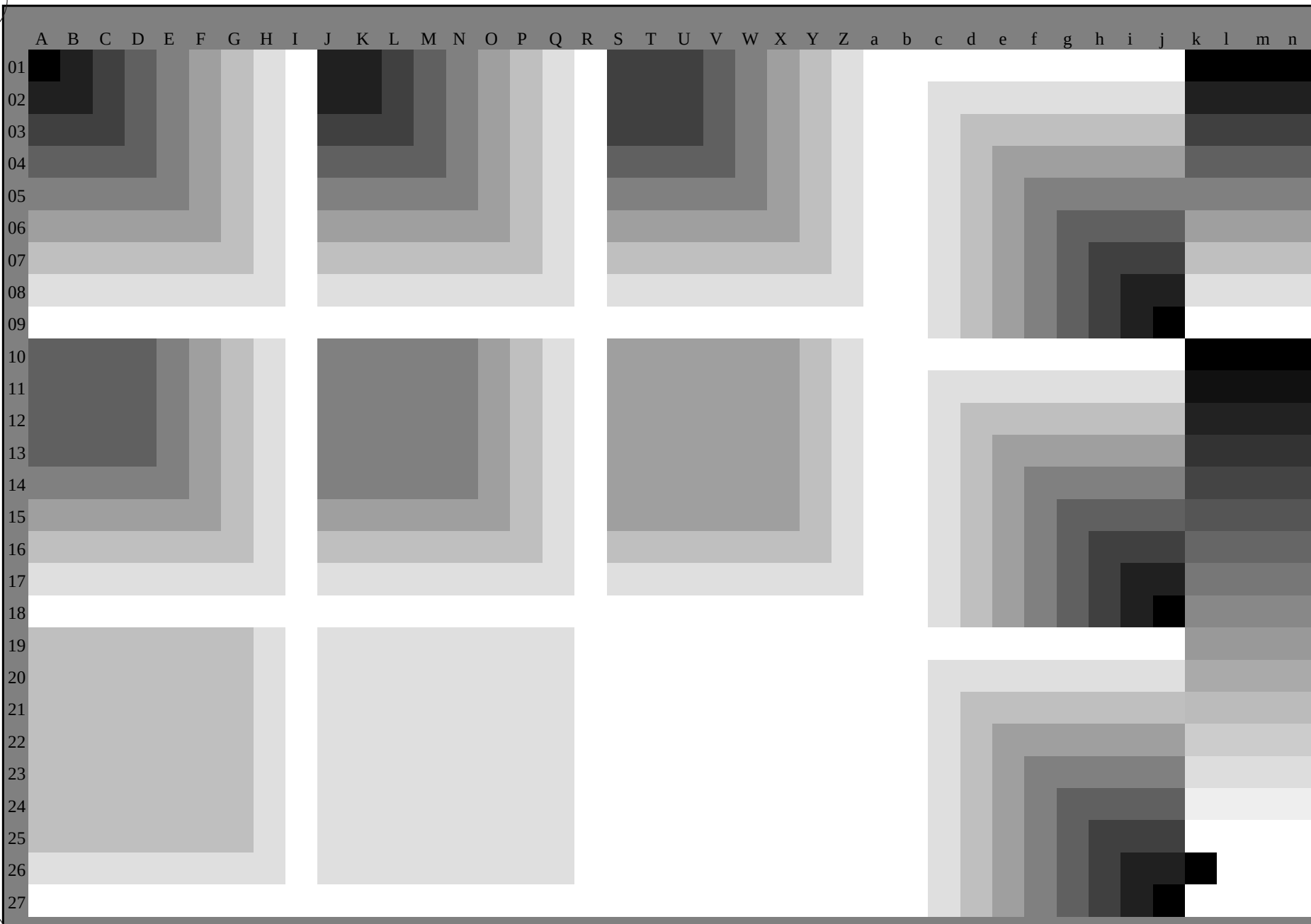
input: *rgb/cmyk* -> *rgb_d*
output: transfer to *cmyk_d*

see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, separationcmykn6 (CMYK)
TUB material: code=rha4ta



SE190-70
TUB-test chart SE19; 1080 standard colours
Test chart according to DIN 33872, 3D=0, de=0, cmyk

input: *rgb/cmyk* -> *rgb_d*
output: transfer to *cmyk_d*



Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$ Yellow

$LCH^*_d = 91.5 \ 86.1 \ 100.5$

$LAB^*_d = 91.5 \ -15.8 \ 84.6$

$rgb^*_d = 1.0 \ 1.0 \ 0.0$

$L=G_d$ leaf-green

$LCH^*_d = 54.3 \ 74.3 \ 155.5$

$LAB^*_d = 54.3 \ -67.6 \ 30.8$

$rgb^*_d = 0.0 \ 1.0 \ 0.0$

$C=C_d$ cyan-blue

$LCH^*_d = 53.1 \ 52.5 \ 235.1$

$LAB^*_d = 53.1 \ -30.0 \ -43.1$

$rgb^*_d = 0.0 \ 1.0 \ 1.0$

$O=R_d$ orange-red

$LCH^*_d = 47.5 \ 68.6 \ 33.4$

$LAB^*_d = 47.5 \ 57.2 \ 37.8$

$rgb^*_d = 1.0 \ 0.0 \ 0.0$

$M=M_d$ magenta-red

$LCH^*_d = 48.1 \ 66.6 \ 348.9$

$LAB^*_d = 48.1 \ 65.4 \ -12.7$

$rgb^*_d = 1.0 \ 0.0 \ 1.0$

$V=B_d$ violet-blue

$LCH^*_d = 32.5 \ 47.7 \ 290.8$

$LAB^*_d = 32.5 \ 16.9 \ -44.6$

$rgb^*_d = 0.0 \ 0.0 \ 1.0$

Y_e yellow

$LCH^*_e = 83.6 \ 76.9 \ 92.3$

$LAB^*_e = 83.6 \ -3.1 \ 76.8$

$rgb^*_{de} = 1.0 \ 0.768 \ 0.0$

G_e green

$LCH^*_e = 53.8 \ 69.2 \ 162.2$

$LAB^*_e = 53.8 \ -65.9 \ 21.1$

$rgb^*_{de} = 0.0 \ 1.0 \ 0.146$

C_e blue-green

$LCH^*_e = 54.9 \ 48.4 \ 216.9$

$LAB^*_e = 54.9 \ -38.7 \ -29.1$

$rgb^*_{de} = 0.0 \ 1.0 \ 0.791$

B_e blue

$LCH^*_e = 37.3 \ 48.7 \ 271.7$

$LAB^*_e = 37.3 \ 1.4 \ -48.6$

$rgb^*_{de} = 0.0 \ 0.261 \ 1.0$

R_e red

$LCH^*_e = 47.5 \ 62.1 \ 25.4$

$LAB^*_e = 47.5 \ 56.0 \ 26.7$

$rgb^*_{de} = 1.0 \ 0.0 \ 0.263$

M_e blue-red

$LCH^*_e = 38.5 \ 54.7 \ 328.6$

$LAB^*_e = 38.5 \ 46.7 \ -28.5$

$rgb^*_{de} = 0.584 \ 0.0 \ 1.0$

Y_s yellow

$LCH^*_s = 81.8 \ 76.2 \ 90.0$

$LAB^*_s = 81.8 \ 0.0 \ 76.2$

$rgb^*_{ds} = 1.0 \ 0.732 \ 0.0$

G_s green

$LCH^*_s = 57.6 \ 70.9 \ 150.0$

$LAB^*_s = 57.6 \ -61.4 \ 35.4$

$rgb^*_{ds} = 0.145 \ 1.0 \ 0.0$

R_s red

$LCH^*_s = 47.6 \ 65.0 \ 30.0$

$LAB^*_s = 47.6 \ 56.3 \ 32.5$

$rgb^*_{ds} = 1.0 \ 0.0 \ 0.157$

M_s blue-red

$LCH^*_s = 38.9 \ 55.3 \ 330.0$

$LAB^*_s = 38.9 \ 47.9 \ -27.6$

$rgb^*_{ds} = 0.612 \ 0.0 \ 1.0$

C_s blue-green

$LCH^*_s = 55.2 \ 48.1 \ 210.0$

$LAB^*_s = 55.2 \ -41.7 \ -24.0$

$rgb^*_{ds} = 0.0 \ 1.0 \ 0.694$

B_s blue

$LCH^*_s = 38.0 \ 48.9 \ 270.0$

$LAB^*_s = 38.0 \ 0.0 \ -48.9$

$rgb^*_{ds} = 0.0 \ 0.283 \ 1.0$

Notes to the CIELAB chroma diagrams (a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)

1. For the rgb^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.

2. For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_e the equation:

$$h_{ab,s} = \text{atan} [r^*_d \cos(30) + g^*_d \cos(150)] / [r^*_d \sin(30) + g^*_d \sin(150) + b^*_d \sin(270)] \quad (1)$$

3. For the 48 or 360 equally spaced standard hue angles $h_{ab,s}$ of the colours of maximum chroma use the seven hue angles of the 60 degree colours s : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:

$$h_{48ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (2)$$

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$

4. For the 48 or 360 elementary hue angles $h_{ab,e}$ of the colours of maximum chroma use the seven hue angles of the elementary colours e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:

$$h_{48ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (4)$$

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$

5. For any elementary hue angle $h_{ab,e}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.

6. The values rgb^*_{de} produce the output of the device-independent elementary hues

1-003630-L0

SE190-70

LAB*La0, YN=0%, XYZZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 7/33

TUB-test chart SE19; 1080 standard colours

48 step hue circles; $rgb-LabCh^*$ tables, 3D=0, de=0, $cm\dot{y}k$

input: $rgb/cmyk \rightarrow rgb_d$

output: transfer to $cm\dot{y}k_d$

1-003630-F0

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM₆: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBM₆: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours RYGBM₆: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}	LAB^*_{ddx64M} (x=LabCh)	$rgb^*_{ddx361M}$	$LAB^*_{ddx361M}$ (x=LabCh)	$rgb^*_{dsx361M}$	$LAB^*_{dsx361M}$ (x=LabCh)	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$																	
33.4	30.0	25.4	1.0	0.0	0.0	47.5	57.2	37.9	68.6	33	1.0	0.0	0.158	47.7	56.3	32.5	65.0	30	1.0	0.0	0.263	47.6	56.1	26.7	62.1	25	
42.1	37.5	33.8	1.0	0.125	0.0	51.9	54.3	49.2	73.2	42.1	1.0	0.0	0.05	0.0	49.4	56.3	42.4	70.5	37	1.0	0.0	0.012	47.6	57.2	37.5	68.4	33
52.8	45.0	42.1	1.0	0.25	0.0	58.2	41.8	55.1	69.2	52.8	1.0	0.25	0.0	58.3	41.8	55.2	69.2	52	1.0	0.125	0.0	52.0	54.3	49.2	73.3	42	
63.7	52.5	50.5	1.0	0.375	0.0	64.6	29.8	60.4	67.3	63.7	1.0	0.367	0.0	64.2	30.6	60.1	67.5	63	1.0	0.24	0.0	57.8	42.8	54.8	69.6	52	
73.8	60.0	58.8	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73.8	1.0	0.5	0.0	70.5	19.2	66.3	69.0	73	1.0	0.332	0.0	62.5	34.0	58.9	68.0	60	
80.7	67.5	67.2	1.0	0.625	0.0	74.9	11.4	70.7	71.6	80.7	1.0	0.617	0.0	74.6	12.0	70.5	71.5	80	1.0	0.416	0.0	66.6	26.5	62.5	67.9	67	
91.5	75.0	75.6	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	91.5	1.0	0.75	0.0	83.0	-1.9	77.0	77.0	-268	1.0	0.521	0.0	71.3	18.0	67.1	69.5	75	
96.8	82.5	83.9	1.0	0.875	0.0	87.6	-9.0	75.7	76.3	96.8	1.0	0.867	0.0	87.3	-8.5	75.9	76.4	96	1.0	0.639	0.0	75.8	10.1	71.6	72.3	82	
100.5	90.0	92.3	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100.5	1.0	1.0	0.0	91.6	-15.7	84.7	86.2	100	1.0	0.732	0.0	81.8	0.0	76.3	76.3	90	
101.4	97.5	101.0	0.875	1.0	0.0	92.8	-18.1	89.4	91.2	101.4	0.883	1.0	0.0	92.7	-17.9	89.1	90.9	101	1.0	0.88	0.0	87.8	-9.3	76.2	76.7	97	
103.9	105.0	109.7	0.75	1.0	0.0	90.1	-21.3	86.0	88.6	103.9	0.75	1.0	0.0	90.1	-21.3	86.0	88.7	103	0.738	1.0	0.0	89.2	-22.5	84.4	87.4	105	
115.0	112.5	118.5	0.625	1.0	0.0	79.9	-31.7	67.9	75.0	115.0	0.633	1.0	0.0	80.6	-31.1	69.2	75.9	114	0.659	1.0	0.0	82.7	-29.4	73.0	78.8	112	
127.3	120.0	127.2	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127.3	0.5	1.0	0.0	71.0	-41.7	54.8	68.9	127	0.574	1.0	0.0	76.3	-36.2	62.8	72.6	120	
134.7	127.5	136.0	0.375	1.0	0.0	66.5	-47.5	48.0	67.6	134.7	0.383	1.0	0.0	66.9	-47.1	48.5	67.7	134	0.503	1.0	0.0	71.2	-41.5	55.2	69.1	127	
144.7	135.0	144.7	0.25	1.0	0.0	60.6	-57.2	40.4	70.1	144.7	0.25	1.0	0.0	60.6	-57.2	40.5	70.1	144	0.372	1.0	0.0	66.4	-47.8	47.9	67.7	135	
151.0	142.5	153.4	0.125	1.0	0.0	57.0	-62.2	34.4	71.1	151.0	0.133	1.0	0.0	57.3	-61.8	34.8	71.0	150	0.284	1.0	0.0	62.3	-54.6	42.7	69.4	142	
155.5	150.0	162.2	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	0.0	1.0	0.0	54.3	-67.6	30.8	74.4	155	0.146	1.0	0.0	57.6	-61.3	35.5	70.9	150	
160.8	157.5	169.0	0.0	1.0	0.125	53.8	-66.4	23.0	70.2	160.8	0.0	1.0	0.117	53.9	-66.4	23.5	70.6	160	0.0	1.0	0.035	54.2	-67.3	28.6	73.2	157	
168.5	165.0	175.9	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168.5	0.0	1.0	0.25	53.8	-63.1	12.8	64.4	168	0.0	1.0	0.192	53.8	-64.7	17.4	67.1	165	
179.9	172.5	182.7	0.0	1.0	0.375	54.7	-56.8	0.0	56.8	179.9	0.0	1.0	0.367	54.7	-57.2	0.8	57.3	179	0.0	1.0	0.288	54.1	-61.4	8.6	62.1	172	
189.8	180.0	189.6	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189.8	0.0	1.0	0.5	55.0	-51.4	-8.8	52.2	189	0.0	1.0	0.375	54.8	-56.7	0.0	56.8	180	
204.4	187.5	196.4	0.0	1.0	0.625	55.3	-44.1	-20.0	48.5	204.4	0.0	1.0	0.617	55.3	-44.6	-19.3	48.8	203	0.0	1.0	0.464	55.0	-53.0	-6.4	53.5	187	
214.4	195.0	203.2	0.0	1.0	0.75	55.2	-39.5	-27.1	47.9	214.4	0.0	1.0	0.75	55.2	-39.4	-27.0	47.9	214	0.0	1.0	0.544	55.2	-49.1	-13.1	50.9	195	
221.9	202.5	210.1	0.0	1.0	0.875	54.4	-36.7	-33.0	49.4	221.9	0.0	1.0	0.867	54.5	-36.9	-32.6	49.4	221	0.0	1.0	0.604	55.3	-45.5	-18.3	49.1	202	
235.1	210.0	216.9	0.0	1.0	1.0	53.1	-30.0	-43.1	52.5	235.1	0.0	1.0	1.0	53.1	-29.9	-43.0	52.5	235	0.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	
237.9	217.5	223.8	0.0	0.875	1.0	53.1	-27.9	-44.7	52.7	237.9	0.0	0.883	1.0	53.1	-28.0	-44.5	52.8	237	0.0	1.0	0.792	55.0	-38.6	-29.1	48.5	217	
241.3	225.0	230.6	0.0	0.75	1.0	52.9	-25.9	-44.5	54.1	241.3	0.0	0.75	1.0	52.9	-25.8	-47.5	54.2	241	0.0	1.0	0.904	54.2	-35.4	-35.4	50.2	225	
247.2	232.5	237.5	0.0	0.625	1.0	50.5	-20.8	-49.5	53.7	247.2	0.0	0.633	1.0	50.7	-21.1	-49.3	53.8	246	0.0	1.0	0.97	53.5	-31.8	-40.7	51.8	232	
254.9	240.0	244.3	0.0	0.5	1.0	46.1	-13.3	-49.4	51.1	254.9	0.0	0.5	1.0	46.2	-13.2	-49.3	51.2	254	0.0	0.801	1.0	53.0	-26.7	-46.3	53.6	240	
262.6	247.5	251.2	0.0	0.375	1.0	41.4	-6.3	-49.2	49.6	262.6	0.0	0.383	1.0	41.7	-6.7	-49.2	49.8	262	0.0	0.63	1.0	50.7	-20.9	-49.4	53.8	247	
272.6	255.0	258.0	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272.6	0.0	0.25	1.0	36.9	2.2	-48.5	48.6	272	0.0	0.499	1.0	46.1	-13.1	-49.3	51.2	255	
281.4	262.5	264.8	0.0	0.125	1.0	35.0	9.4	-46.3	47.3	281.4	0.0	0.133	1.0	35.2	8.9	-46.5	47.4	280	0.0	0.386	1.0	41.8	-6.8	-49.2	49.8	262	
290.8	270.0	271.7	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8	0.0	0.0	1.0	32.6	16.9	-44.5	47.7	290	0.0	0.283	1.0	38.1	0.0	-48.8	48.9	270	
299.2	277.5	278.8	0.125	0.0	1.0	31.6	23.6	-42.2	48.4	299.2	0.117	0.0	1.0	31.7	23.2	-42.3	48.4	298	0.0	0.188	1.0	36.0	5.8	-47.5	48.0	277	
307.8	285.0	285.9	0.25	0.0	1.0	31.0	30.5	-39.3	49.8	307.8	0.25	0.0	1.0	31.0	30.6	-39.3	49.9	307	0.0	0.078	1.0	34.1	12.3	-45.8	47.5	285	
317.5	292.5	293.0	0.375	0.0	1.0	34.2	38.2	-35.0	51.8	317.5	0.367	0.0	1.0	34.0	37.8	-35.3	51.7	316	0.018	0.0	1.0	32.4	17.9	-44.2	47.8	292	
324.4	300.0	300.1	0.5	0.0	1.0	37.2	43.1	-30.8	53.0	324.4	0.5	0.0	1.0	37.2	43.2	-30.8	53.1	324	0.136	0.0	1.0	31.6	24.3	-41.9	48.5	300	
330.6	307.5	307.2	0.625	0.0	1.0	39.1	48.4	-27.2	55.6	330.6	0.617	0.0	1.0	39.0	48.1	-27.4	55.4	330	0.238	0.0	1.0	31.1	29.9	-39.6	49.7	307	
338.7	315.0	314.3	0.75	0.0	1.0	41.8	55.1	-21.4	59.1	338.7	0.75	0.0	1.0	41.9	55.2	-21.4	59.2	338	0.343	0.0	1.0	33.4	36.3	-36.2	51.4	315	
343.9	322.5	321.4	0.875	0.0	1.0	45.6	60.1	-17.3	62.6	343.9	0.867	0.0	1.0	45.4	59.8	-17.5	62.4	343	0.456	0.0	1.0	36.2	41.5	-32.3	52.7	322	
348.9	330.0	328.6	1.0	0.0	1.0	48.1	65.4	-12.7	66.6	348.9	1.0	0.0	1.0	48.2	65.4	-12.7	66.7	348	0.612	0.0	1.0	38.9	47.9	-27.6	55.4	330	
350.7	337.5	335.7	1.0	0.0	0.875	49.5	66.1	-10.7	67.0	350.7	1.0	0.0	0.883	49.5	66.1	-10.8	67.0	350	0.723	0.0	1.0	41.3	53.8	-22.7	58.4	337	
354.2	345.0	342.8	1.0	0.0	0.75</																						

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}	$LAB^*_{ddx64M}(x=LabCh)$		$rgb^*_{dex361M}$	$LAB^*_{dex361M}$
33.4	30.0	25.4	1.0	0.0	0.0	1.0	0.0
42.1	37.5	33.8	1.0	0.125	0.0	1.0	0.0263
52.8	45.0	42.1	1.0	0.25	0.0	1.0	0.0512
63.7	52.5	50.5	1.0	0.375	0.0	1.0	0.0761
73.8	60.0	58.8	1.0	0.5	0.0	1.0	0.1010
80.7	67.5	67.2	1.0	0.625	0.0	1.0	0.1259
91.5	75.0	75.6	1.0	0.75	0.0	1.0	0.1508
96.8	82.5	83.9	1.0	0.875	0.0	1.0	0.1757
100.5	90.0	92.3	1.0	1.0	0.0	1.0	0.2006
101.4	97.5	101.0	0.875	1.0	0.0	1.0	0.2255
103.9	105.0	109.7	0.75	1.0	0.0	1.0	0.2504
115.0	112.5	118.5	0.625	1.0	0.0	1.0	0.2753
127.3	120.0	127.2	0.5	1.0	0.0	1.0	0.3002
134.7	127.5	136.0	0.375	1.0	0.0	1.0	0.3251
144.7	135.0	144.7	0.25	1.0	0.0	1.0	0.3500
151.0	142.5	153.4	0.125	1.0	0.0	1.0	0.3749
155.5	150.0	162.2	0.0	1.0	0.0	1.0	0.3998
160.8	157.5	169.0	0.0	1.0	0.125	53.8	-66.4
168.5	165.0	175.9	0.0	1.0	0.25	53.7	-63.1
179.9	172.5	182.7	0.0	1.0	0.375	54.7	-56.8
189.8	180.0	189.6	0.0	1.0	0.5	55.0	-51.4
204.4	187.5	196.4	0.0	1.0	0.625	55.3	-44.1
214.4	195.0	203.2	0.0	1.0	0.75	55.2	-39.5
221.9	202.5	210.1	0.0	1.0	0.875	54.4	-36.7
235.1	210.0	216.9	0.0	1.0	1.0	53.1	-30.0
237.9	217.5	223.8	0.0	0.875	1.0	53.1	-27.9
241.3	225.0	230.6	0.0	0.75	1.0	52.9	-25.9
247.2	232.5	237.5	0.0	0.625	1.0	50.5	-20.8
254.9	240.0	244.3	0.0	0.5	1.0	46.1	-13.3
262.6	247.5	251.2	0.0	0.375	1.0	41.4	-6.3
272.6	255.0	258.0	0.0	0.25	1.0	36.8	2.2
281.4	262.5	264.8	0.0	0.125	1.0	35.0	9.4
290.8	270.0	271.7	0.0	0.0	1.0	32.5	16.9
299.2	277.5	278.8	0.125	0.0	1.0	31.6	23.6
307.8	285.0	285.9	0.25	0.0	1.0	31.0	30.5
317.5	292.5	293.0	0.375	0.0	1.0	34.2	38.2
324.4	300.0	300.1	0.5	0.0	1.0	37.2	43.1
330.6	307.5	307.2	0.625	0.0	1.0	39.1	48.4
338.7	315.0	314.3	0.75	0.0	1.0	41.8	55.1
343.9	322.5	321.4	0.875	0.0	1.0	45.6	60.1
348.9	330.0	328.6	1.0	0.0	1.0	48.1	65.4
350.7	337.5	335.7	1.0	0.0	0.875	49.5	66.1
354.2	345.0	342.8	1.0	0.0	0.75	49.3	64.5
361.9	352.5	349.9	1.0	0.0	0.625	48.0	61.8
370.0	360.0	357.0	1.0	0.0	0.5	47.8	58.9
378.9	367.5	364.1	1.0	0.0	0.375	47.4	56.8
386.2	375.0	371.2	1.0	0.0	0.25	47.5	55.9
391.3	382.5	378.3	1.0	0.0	0.125	47.6	56.3
393.4	390.0	385.4	1.0	0.0	0.0	47.5	57.2

rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
1.0	0.0	0.0
1.0	0.0	0.0263
1.0	0.0	0.0512
1.0	0.0	0.0761
1.0	0.0	0.1010
1.0	0.0	0.1259
1.0	0.0	0.1508
1.0	0.0	0.1757
1.0	0.0	0.2006
1.0	0.0	0.2255
1.0	0.0	0.2504
1.0	0.0	0.2753
1.0	0.0	0.3002
1.0	0.0	0.3251
1.0	0.0	0.3500
1.0	0.0	0.3749
1.0	0.0	0.3998
1.0	0.0	0.4247
1.0	0.0	0.4496
1.0	0.0	0.4745
1.0	0.0	0.4994
1.0	0.0	0.5243
1.0	0.0	0.5492
1.0	0.0	0.5741
1.0	0.0	0.5990
1.0	0.0	0.6239
1.0	0.0	0.6488
1.0	0.0	0.6737
1.0	0.0	0.6986
1.0	0.0	0.7235
1.0	0.0	0.7484
1.0	0.0	0.7733
1.0	0.0	0.7982
1.0	0.0	0.8231
1.0	0.0	0.8480
1.0	0.0	0.8729
1.0	0.0	0.8978
1.0	0.0	0.9227
1.0	0.0	0.9476
1.0	0.0	0.9725
1.0	0.0	0.9974
1.0	0.0	1.0

1-003830-L0 SE190-70 LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

TUB-test chart SE19; 1080 standard colours
48 step hue circles; $rgb-LabCh^*$ tables, 3D=0, de=0, $cmYK$

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmYK_d$

Output: Laser printer output; separation cmyn6*, D65, page 9/33

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}(x=LabCh)$	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	R_s	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	R_e	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
33	30	25	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33	1.0	0.0	0.0	0.0	0.0
34	31	26	1.0	0.016	0.0	48.1	56.9	39.3	69.2	34	1.0	0.0	0.017	0.0	0.0
35	32	27	1.0	0.033	0.0	48.7	56.6	40.8	69.8	35	1.0	0.0	0.033	0.0	0.0
36	33	28	1.0	0.05	0.0	49.3	56.3	42.3	70.4	36	1.0	0.0	0.05	0.0	0.0
38	34	29	1.0	0.066	0.0	49.9	55.9	43.9	71.1	38	1.0	0.0	0.067	0.0	0.0
39	35	31	1.0	0.083	0.0	50.5	55.5	45.4	71.7	39	1.0	0.0	0.083	0.0	0.0
40	36	32	1.0	0.1	0.0	51.0	55.0	46.9	72.3	40	1.0	0.0	0.1	0.0	0.0
41	37	33	1.0	0.116	0.0	51.6	54.5	48.4	72.9	41	1.0	0.0	0.117	0.0	0.0
42	38	34	1.0	0.133	0.0	52.3	53.4	49.7	73.0	42	1.0	0.0	0.133	0.0	0.0
44	39	35	1.0	0.15	0.0	53.2	51.8	50.6	72.4	44	1.0	0.0	0.15	0.0	0.0
45	40	36	1.0	0.166	0.0	54.0	50.2	51.5	71.9	45	1.0	0.0	0.167	0.0	0.0
47	41	37	1.0	0.183	0.0	54.9	48.5	52.3	71.4	47	1.0	0.0	0.183	0.0	0.0
48	42	38	1.0	0.2	0.0	55.7	46.8	53.1	70.8	48	1.0	0.0	0.2	0.0	0.0
50	43	39	1.0	0.216	0.0	56.6	45.2	53.8	70.3	50	1.0	0.0	0.217	0.0	0.0
51	44	41	1.0	0.233	0.0	57.4	43.5	54.5	69.7	51	1.0	0.0	0.233	0.0	0.0
52	45	42	1.0	0.25	0.0	58.2	41.8	55.1	69.2	52	1.0	0.0	0.25	0.0	0.0
54	46	43	1.0	0.266	0.0	59.1	40.2	56.0	69.0	54	1.0	0.0	0.267	0.0	0.0
55	47	44	1.0	0.283	0.0	59.9	38.6	56.8	68.7	55	1.0	0.0	0.283	0.0	0.0
57	48	45	1.0	0.3	0.0	60.8	37.1	57.5	68.5	57	1.0	0.0	0.3	0.0	0.0
58	49	46	1.0	0.316	0.0	61.6	35.5	58.2	68.2	58	1.0	0.0	0.317	0.0	0.0
60	50	47	1.0	0.333	0.0	62.5	33.9	58.9	68.0	60	1.0	0.0	0.333	0.0	0.0
61	51	48	1.0	0.35	0.0	63.3	32.2	59.5	67.7	61	1.0	0.0	0.35	0.0	0.0
63	52	49	1.0	0.366	0.0	64.2	30.6	60.1	67.5	63	1.0	0.0	0.367	0.0	0.0
64	53	51	1.0	0.383	0.0	65.0	29.1	60.8	67.4	64	1.0	0.0	0.383	0.0	0.0
65	54	52	1.0	0.4	0.0	65.8	27.8	61.7	67.7	65	1.0	0.0	0.4	0.0	0.0
67	55	53	1.0	0.416	0.0	66.6	26.4	62.5	67.9	67	1.0	0.0	0.417	0.0	0.0
68	56	54	1.0	0.433	0.0	67.3	25.0	63.3	68.1	68	1.0	0.0	0.433	0.0	0.0
69	57	55	1.0	0.45	0.0	68.1	23.6	64.1	68.3	69	1.0	0.0	0.45	0.0	0.0
71	58	56	1.0	0.466	0.0	68.9	22.1	64.8	68.5	71	1.0	0.0	0.467	0.0	0.0
72	59	57	1.0	0.483	0.0	69.7	20.7	65.6	68.8	72	1.0	0.0	0.483	0.0	0.0
73	60	58	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73	1.0	0.0	0.5	0.0	0.0
74	61	60	1.0	0.516	0.0	71.0	18.2	66.9	69.3	74	1.0	0.0	0.517	0.0	0.0
75	62	61	1.0	0.533	0.0	71.6	17.2	67.5	69.7	75	1.0	0.0	0.533	0.0	0.0
76	63	62	1.0	0.55	0.0	72.2	16.2	68.1	70.0	76	1.0	0.0	0.55	0.0	0.0
77	64	63	1.0	0.566	0.0	72.8	15.1	68.7	70.4	77	1.0	0.0	0.567	0.0	0.0
78	65	64	1.0	0.583	0.0	73.4	14.1	69.3	70.7	78	1.0	0.0	0.583	0.0	0.0
79	66	65	1.0	0.6	0.0	74.0	13.0	69.9	71.1	79	1.0	0.0	0.6	0.0	0.0
80	67	66	1.0	0.616	0.0	74.6	12.0	70.4	71.4	80	1.0	0.0	0.617	0.0	0.0
81	68	67	1.0	0.633	0.0	75.4	10.6	71.2	72.0	81	1.0	0.0	0.633	0.0	0.0
82	69	68	1.0	0.65	0.0	76.5	8.9	72.1	72.7	82	1.0	0.0	0.65	0.0	0.0
84	70	70	1.0	0.666	0.0	77.5	7.2	73.0	73.4	84	1.0	0.0	0.667	0.0	0.0
85	71	71	1.0	0.683	0.0	78.6	5.4	73.9	74.1	85	1.0	0.0	0.683	0.0	0.0
87	72	72	1.0	0.7	0.0	79.7	3.6	74.7	74.8	87	1.0	0.0	0.7	0.0	0.0
88	73	73	1.0	0.716	0.0	80.8	1.7	75.5	75.5	88	1.0	0.0	0.717	0.0	0.0
-269	74	74	1.0	0.733	0.0	81.8	-0.1	76.3	76.3	-269	1.0	0.0	0.733	0.0	0.0
-268	75	75	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	-268	1.0	0.0	0.75	0.0	0.0

1-003930-L0 SE190-70 LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 10/33

TUB-test chart SE19; 1080 standard colours
48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=0, $cmYK$

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmYK_d$

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, separationcmyn6 (CMYK)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dxd361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
-268	75	75	1.0	0.75 0.0	82.9	-2.0 76.9 77.0	-268	R_d																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
92	76	76	1.0	0.766 0.0	83.5	-2.9 76.8 76.9	92	1.0	0.521 0.0	71.3	18.0 67.1 69.5	75	1.0	0.75 0.0	82.9	-2.0 76.9 77.0	-268	R_d																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
92	77	77	1.0	0.783 0.0	84.2	-3.9 76.7 76.8	92	1.0	0.539 0.0	71.9	16.9 67.8 69.8	76	1.0	0.767 0.0	83.5	-2.9 76.8 76.9	92	1.0	0.557 0.0	72.5	15.8 68.4 70.2	77	1.0	0.783 0.0	84.2	-3.9 76.7 76.8	92	1.0	0.575 0.0	73.1	14.7 69.1 70.6	78	1.0	0.8 0.0	84.8	-4.8 76.5 76.7	93	1.0	0.593 0.0	73.8	13.5 69.7 71.0	79	1.0	0.817 0.0	74.4	12.4 70.3 71.4	80	1.0	0.833 0.0	75.2	11.0 71.0 71.9	81	1.0	0.85 0.0	76.0	9.7 71.8 72.4	82	1.0	0.866 0.0	76.9	8.4 72.5 73.0	83	1.0	0.883 0.0	77.7	7.0 73.2 73.5	84	1.0	0.9 0.0	78.5	5.6 73.9 74.1	85	1.0	0.917 0.0	79.4	4.2 74.5 74.6	86	1.0	0.933 0.0	80.2	2.8 75.1 75.2	87	1.0	0.95 0.0	81.1	1.4 75.7 75.7	88	1.0	0.967 0.0	81.9	0.0 76.3 76.3	90	1.0	0.983 0.0	82.7	-1.5 76.8 76.9	91	1.0	0.983 0.0	83.7	-3.0 76.8 76.9	92	Y_e	1.0	1.0 0.0	84.7	-4.6 76.6 76.8	93	0.983	1.0	0.0	85.7	-6.1 76.4 76.6	94	0.967	1.0	0.0	86.7	-7.6 76.1 76.5	95	0.95	1.0	0.0	87.8	-9.2 76.1 76.7	96	0.933	1.0	0.0	88.9	-11.2 78.9 79.7	98	0.917	1.0	0.0	90.2	-13.3 81.7 82.8	99	0.9	1.0	0.0	91.5	-15.5 84.4 85.8	100	0.883	1.0	0.0	92.6	-18.3 89.2 91.1	101	0.867	1.0	0.0	93.4	-19.8 87.6 89.9	102	0.85	1.0	0.0	94.7	-21.3 86.0 88.6	103	0.833	1.0	0.0	95.9	-22.7 84.2 87.2	105	0.817	1.0	0.0	97.1	-24.0 82.3 85.8	106	0.8	1.0	0.0	98.3	-25.2 80.5 84.3	107	0.783	1.0	0.0	99.4	-26.4 78.6 82.9	108	0.767	1.0	0.0	100.6	-27.5 76.7 81.5	109	0.75	1.0	0.0	101.7	-28.5 74.8 80.0	110	0.733	1.0	0.0	102.8	-29.5 72.8 78.6	112	0.717	1.0	0.0	103.9	-30.4 70.9 77.2	113	0.7	1.0	0.0	104.9	-31.3 69.0 75.7	114	0.683	1.0	0.0	105.9	-32.2 67.4 74.7	115	0.667	1.0	0.0	106.9	-33.3 66.2 74.2	116	0.65	1.0	0.0	107.9	-34.4 65.0 73.6	117	0.633	1.0	0.0	108.9	-35.4 63.8 73.0	119	0.617	1.0	0.0	109.9	-36.4 62.5 72.4	120	0.6	1.0	0.0	110.9	-37.4 61.3 71.8	121	0.583	1.0	0.0	111.9	-38.3 60.0 71.3	122	0.567	1.0	0.0	112.9	-39.2 58.8 70.7	123	0.55	1.0	0.0	113.9	-40.0 57.5 70.1	124	0.533	1.0	0.0	114.9	-40.9 56.2 69.5	126	0.517	1.0	0.0	115.9	-41.6 54.9 68.9	127	0.5	1.0	0.0	116.9	-42.5 53.0 67.9	128	0.483	1.0	0.0	117.9	-43.4 51.1 66.9	129	0.458	1.0	0.0	118.9	-44.3 49.2 65.9	130	0.433	1.0	0.0	119.9	-45.2 47.3 64.9	131	0.408	1.0	0.0	120.9	-46.1 45.4 63.9	132	0.383	1.0	0.0	121.9	-47.0 43.5 62.9	133	0.358	1.0	0.0	122.9	-47.9 41.6 61.9	134	0.333	1.0	0.0	123.9	-48.8 39.7 60.9	135	0.308	1.0	0.0	124.9	-49.7 37.8 59.9	136	0.283	1.0	0.0	125.9	-50.6 35.9 58.9	137	0.258	1.0	0.0	126.9	-51.5 34.0 57.9	138	0.233	1.0	0.0	127.9	-52.4 32.1 56.9	139	0.208	1.0	0.0	128.9	-53.3 30.2 55.9	140	0.183	1.0	0.0	129.9	-54.2 28.3 54.9	141	0.158	1.0	0.0	130.9	-55.1 26.4 53.9	142	0.133	1.0	0.0	131.9	-56.0 24.5 52.9	143	0.108	1.0	0.0	132.9	-56.9 22.6 51.9	144	0.083	1.0	0.0	133.9	-57.8 20.7 50.9	145	0.058	1.0	0.0	134.9	-58.7 18.8 49.9	146	0.033	1.0	0.0	135.9	-59.6 16.9 48.9	147	0.008	1.0	0.0	136.9	-60.5 15.0 47.9	148	0.0	1.0	0.0	137.9	-61.4 13.1 46.9	149	0.0	1.0	0.0	138.9	-62.3 11.2 45.9	150	0.0	1.0	0.0	139.9	-63.2 9.3 44.9	151	0.0	1.0	0.0	140.9	-64.1 7.4 43.9	152	0.0	1.0	0.0	141.9	-65.0 5.5 42.9	153	0.0	1.0	0.0	142.9	-65.9 3.6 41.9	154	0.0	1.0	0.0	143.9	-66.8 1.7 40.9	155	0.0	1.0	0.0	144.9	-67.7 0.0 39.9	156	0.0	1.0	0.0	145.9	-68.6 0.0 38.9	157	0.0	1.0	0.0	146.9	-69.5 0.0 37.9	158	0.0	1.0	0.0	147.9	-70.4 0.0 36.9	159	0.0	1.0	0.0	148.9	-71.3 0.0 35.9	160	0.0	1.0	0.0	149.9	-72.2 0.0 34.9	161	0.0	1.0	0.0	150.9	-73.1 0.0 33.9	162	0.0	1.0	0.0	151.9	-74.0 0.0 32.9	163	0.0	1.0	0.0	152.9	-74.9 0.0 31.9	164	0.0	1.0	0.0	153.9	-75.8 0.0 30.9	165	0.0	1.0	0.0	154.9	-76.7 0.0 29.9	166	0.0	1.0	0.0	155.9	-77.6 0.0 28.9	167	0.0	1.0	0.0	156.9	-78.5 0.0 27.9	168	0.0	1.0	0.0	157.9	-79.4 0.0 26.9	169	0.0	1.0	0.0	158.9	-80.3 0.0 25.9	170	0.0	1.0	0.0	159.9	-81.2 0.0 24.9	171	0.0	1.0	0.0	160.9	-82.1 0.0 23.9	172	0.0	1.0	0.0	161.9	-83.0 0.0 22.9	173	0.0	1.0	0.0	162.9	-83.9 0.0 21.9	174	0.0	1.0	0.0	163.9	-84.8 0.0 20.9	175	0.0	1.0	0.0	164.9	-85.7 0.0 19.9	176	0.0	1.0	0.0	165.9	-86.6 0.0 18.9	177	0.0	1.0	0.0	166.9	-87.5 0.0 17.9	178	0.0	1.0	0.0	167.9	-88.4 0.0 16.9	179	0.0	1.0	0.0	168.9	-89.3 0.0 15.9	180	0.0	1.0	0.0	169.9	-90.2 0.0 14.9	181	0.0	1.0	0.0	170.9	-91.1 0.0 13.9	182	0.0	1.0	0.0	171.9	-92.0 0.0 12.9	183	0.0	1.0	0.0	172.9	-92.9 0.0 11.9	184	0.0	1.0	0.0	173.9	-93.8 0.0 10.9	185	0.0	1.0	0.0	174.9	-94.7 0.0 9.9	186	0.0	1.0	0.0	175.9	-95.6 0.0 8.9	187	0.0	1.0	0.0	176.9	-96.5 0.0 7.9	188	0.0	1.0	0.0	177.9	-97.4 0.0 6.9	189	0.0	1.0	0.0	178.9	-98.3 0.0 5.9	190	0.0	1.0	0.0	179.9	-99.2 0.0 4.9	191	0.0	1.0	0.0	180.9	-100.1 0.0 3.9	192	0.0	1.0	0.0	181.9	-101.0 0.0 2.9	193	0.0	1.0	0.0	182.9	-101.9 0.0 1.9	194	0.0	1.0	0.0	183.9	-102.8 0.0 0.9	195	0.0	1.0	0.0	184.9	-103.7 0.0 0.0	196	0.0	1.0	0.0	185.9	-104.6 0.0 0.0	197	0.0	1.0	0.0	186.9	-105.5 0.0 0.0	198	0.0	1.0	0.0	187.9	-106.4 0.0 0.0	199	0.0	1.0	0.0	188.9	-107.3 0.0 0.0	200	0.0	1.0	0.0	189.9	-108.2 0.0 0.0	201	0.0	1.0	0.0	190.9	-109.1 0.0 0.0	202	0.0	1.0	0.0	191.9	-110.0 0.0 0.0	203	0.0	1.0	0.0	192.9	-110.9 0.0 0.0	204	0.0	1.0	0.0	193.9	-111.8 0.0 0.0	205	0.0	1.0	0.0	194.9	-112.7 0.0 0.0	206	0.0	1.0	0.0	195.9	-113.6 0.0 0.0	207	0.0	1.0	0.0	196.9	-114.5 0.0 0.0	208	0.0	1.0	0.0	197.9	-115.4 0.0 0.0	209	0.0	1.0	0.0	198.9	-116.3 0.0 0.0	210	0.0	1.0	0.0	199.9	-117.2 0.0 0.0	211	0.0	1.0	0.0	200.9	-118.1 0.0 0.0	212	0.0	1.0	0.0	201.9	-119.0 0.0 0.0	213	0.0	1.0	0.0	202.9	-120.0 0.0 0.0	214	0.0	1.0	0.0	203.9	-120.9 0.0 0.0	215	0.0	1.0	0.0	204.9	-121.8 0.0 0.0	216	0.0	1.0	0.0	205.9	-122.7 0.0 0.0	217	0.0	1.0	0.0	206.9	-123.6 0.0 0.0	218	0.0	1.0	0.0	207.9	-124.5 0.0 0.0	219	0.0	1.0	0.0	208.9	-125.4 0.0 0.0	220	0.0	1.0	0.0	209.9	-126.3 0.0 0.0	221	0.0	1.0	0.0	210.9	-127.2 0.0 0.0	222	0.0	1.0	0.0	211.9	-128.1 0.0 0.0	223	0.0	1.0	0.0	212.9	-129.0 0.0 0.0	224	0.0	1.0	0.0	213.9	-130.0 0.0 0.0	225	0.0	1.0	0.0	214.9	-130.9 0.0 0.0	226	0.0	1.0	0.0	215.9	-131.8 0.0 0.0	227	0.0	1.0	0.0	216.9	-132.7 0.0 0.0	228	0.0	1.0	0.0	217.9	-133.6 0.0 0.0	229	0.0	1.0	0.0	218.9	-134.5 0.0 0.0	230	0.0	1.0	0.0	219.9	-135.4 0.0 0.0	231	0.0	1.0	0.0	220.9	-136.3 0.0 0.0	232	0.0	1.0	0.0	221.9	-137.2 0.0 0.0	233	0.0	1.0	0.0	222.9	-138.1 0.0 0.0	234	0.0	1.0	0.0	223.9	-139.0 0.0 0.0	235	0.0	1.0	0.0	224.9	-140.0 0.0 0.0	236	0.0	1.0	0.0	225.9	-140.9 0.0 0.0	237	0.0	1.0	0.0	226.9	-141.8 0.0 0.0	238	0.0	1.0	0.0	227.9	-142.7 0.0 0.0	239	0.0	1.0	0.0	228.9	-143.6 0.0 0.0	240	0.0	1.0	0.0	229.9	-144.5 0.0 0.0	241	0.0	1.0	0.0	230.9	-145.4 0.0 0.0	242	0.0	1.0	0.0	231.9	-146.3 0.0 0.0	243	0.0	1.0	0.0	232.9	-147.2 0.0 0.0	244	0.0	1.0	0.0	233.9	-148.1 0.0 0.0	245	0.0	1.0	0.0	234.9	-149.0 0.0 0.0	246	0.0	1.0	0.0	235.9	-150.0 0.0 0.0	247	0.0	1.0	0.0	236.9	-150.9 0.0 0.0	248	0.0	1.0	0.0	237.9	-151.8 0.0 0.0	249	0.0	1.0	0.0	238.9	-152.7 0.0 0.0	250	0.0	1.0	0.0	239.9	-153.6 0.0 0.0	251	0.0	1.0	0.0	240.9	-154.5 0.0 0.0	252	0.0	1.0	0.0	241.9	-155.4 0.0 0.0	253	0.0	1.0	0.0	242.9	-156.3 0.0 0.0	254	0.0	1.0	0.0	243.9	-157.2 0.0 0.0	255	0.0	1.0	0.0	244.9	-158.1 0.0 0.0	256	0.0	1.0	0.0	245.9	-159.0 0.0 0.0	257	0.0	1.0	0.0	246.9	-160.0 0.0 0.0	258	0.0	1.0	0.0	247.9	-160.9 0.0 0.0	259	0.0	1.0	0.0	248.9	-161.8 0.0 0.0	260	0.0	1.0	0.0	249.9	-162.7 0.0 0.0	261	0.0	1.0	0.0	250.9	-163.6 0.0 0.0	262	0.0	1.0	0.0	251.9	-164.5 0.0 0.0	263	0.0	1.0	0.0	252.9	-165.4 0.0 0.0	264	0.0	1.0	0.0	253.9	-166.3 0.0 0.0	265	0.0	1.0	0.0	

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM _s : h _{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours RYGBM _d : h _{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9; Six hue angles of the elementary colours RYGBM _e : h _{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6																							
h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* dd361M	LAB* ddx361Mi (x=LabCh)	rgb* ds361Mi	LAB* dsx361Mi (x=LabCh)	rgb* dd361Mi	rgb* de361Mi	LAB* dex361Mi (x=LabCh)	rgb* dd361Mi	rgb* dd												
127	120	127	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127													
128	121	128	0.483	1.0	0.0	70.4	-42.6	53.8	68.7	128													
129	122	129	0.466	1.0	0.0	69.8	-43.4	53.0	68.5	129													
130	123	130	0.45	1.0	0.0	69.2	-44.2	52.1	68.3	130													
131	124	131	0.433	1.0	0.0	68.6	-45.0	51.2	68.2	131													
132	125	132	0.416	1.0	0.0	68.0	-45.7	50.3	68.0	132													
133	126	134	0.4	1.0	0.0	67.4	-46.5	49.4	67.8	133													
134	127	135	0.383	1.0	0.0	66.8	-47.2	48.5	67.7	134													
135	128	136	0.366	1.0	0.0	66.1	-48.2	47.5	67.7	135													
136	129	137	0.35	1.0	0.0	65.4	-49.5	46.6	68.1	136													
138	130	138	0.333	1.0	0.0	64.6	-50.9	45.7	68.4	138													
139	131	140	0.316	1.0	0.0	63.8	-52.2	44.7	68.7	139													
140	132	141	0.3	1.0	0.0	63.0	-53.5	43.7	69.1	140													
142	133	142	0.283	1.0	0.0	62.2	-54.7	42.6	69.4	142													
143	134	143	0.266	1.0	0.0	61.4	-56.0	41.5	69.7	143													
144	135	144	0.25	1.0	0.0	60.6	-57.2	40.4	70.1	144													
145	136	145	0.233	1.0	0.0	60.1	-57.9	39.6	70.2	145													
146	137	147	0.216	1.0	0.0	59.6	-58.6	38.9	70.3	146													
147	138	148	0.2	1.0	0.0	59.1	-59.3	38.1	70.5	147													
148	139	149	0.183	1.0	0.0	58.7	-59.9	37.3	70.6	148													
148	140	150	0.166	1.0	0.0	58.2	-60.6	36.4	70.7	148													
149	141	151	0.15	1.0	0.0	57.7	-61.2	35.6	70.9	149													
150	142	152	0.133	1.0	0.0	57.2	-61.9	34.8	71.0	150													
151	143	154	0.116	1.0	0.0	56.8	-62.5	34.1	71.3	151													
151	144	155	0.1	1.0	0.0	56.4	-63.3	33.7	71.7	151													
152	145	156	0.083	1.0	0.0	56.1	-64.0	33.2	72.1	152													
153	146	157	0.066	1.0	0.0	55.7	-64.7	32.8	72.6	153													
153	147	158	0.049	1.0	0.0	55.4	-65.5	32.3	73.0	153													
154	148	159	0.033	1.0	0.0	55.0	-66.2	31.8	73.5	154													
154	149	161	0.016	1.0	0.0	54.7	-66.9	31.3	73.9	154													
155	150	162	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155													
156	151	163	0.0	1.0	0.016	54.2	-67.5	29.7	73.8	156													
156	152	164	0.0	1.0	0.033	54.2	-67.4	28.6	73.2	156													
157	153	164	0.0	1.0	0.05	54.1	-67.2	27.6	72.7	157													
158	154	165	0.0	1.0	0.066	54.0	-67.1	26.6	72.1	158													
159	155	166	0.0	1.0	0.083	53.9	-66.9	25.5	71.6	159													
159	156	167	0.0	1.0	0.1	53.9	-66.7	24.5	71.1	159													
160	157	168	0.0	1.0	0.116	53.8	-66.5	23.5	70.5	160													
161	158	169	0.0	1.0	0.133	53.8	-66.2	22.3	69.9	161													
162	159	170	0.0	1.0	0.15	53.8	-65.8	20.8	69.1	162													
163	160	171	0.0	1.0	0.166	53.8	-65.5	19.4	68.3	163													
164	161	172	0.0	1.0	0.183	53.8	-65.0	18.1	67.5	164													
165	162	173	0.0	1.0	0.2	53.8	-64.6	16.7	66.7	165													
166	163	174	0.0	1.0	0.216	53.7	-64.1	15.4	66.0	166													
167	164	175	0.0	1.0	0.233	53.7	-63.6	14.1	65.2	167													
168	165	175	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168													

1-0031130-L0

SE190-70

LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 12/33

TUB-test chart SE19; 1080 standard colours
48 step hue circles; rgb-LabCh*tables, 3D=0, de=0, cmyk

input: rgb/cmyk -> rgb_d
output: transfer to cmyk_d

1-0031130-F0

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, separationcmyn6 (CMYK)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$rgb^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
168	165	175	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168	0.0	1.0	0.25
170	166	176	0.0	1.0	0.266	53.9	-62.4	10.9	63.4	170	0.0	1.0	0.267
171	167	177	0.0	1.0	0.283	54.0	-61.7	9.1	62.4	171	0.0	1.0	0.283
173	168	178	0.0	1.0	0.3	54.1	-60.9	7.3	61.3	173	0.0	1.0	0.3
174	169	179	0.0	1.0	0.316	54.3	-60.1	5.6	60.3	174	0.0	1.0	0.317
176	170	180	0.0	1.0	0.333	54.4	-59.2	3.9	59.3	176	0.0	1.0	0.333
177	171	181	0.0	1.0	0.35	54.5	-58.2	2.3	58.3	177	0.0	1.0	0.35
179	172	182	0.0	1.0	0.366	54.7	-57.3	0.8	57.3	179	0.0	1.0	0.367
180	173	183	0.0	1.0	0.383	54.7	-56.5	-0.6	56.5	180	0.0	1.0	0.383
181	174	184	0.0	1.0	0.4	54.8	-55.8	-1.8	55.9	181	0.0	1.0	0.4
183	175	185	0.0	1.0	0.416	54.8	-55.2	-3.1	55.2	183	0.0	1.0	0.417
184	176	185	0.0	1.0	0.433	54.8	-54.5	-4.3	54.6	184	0.0	1.0	0.433
185	177	186	0.0	1.0	0.45	54.9	-53.7	-5.5	54.0	185	0.0	1.0	0.45
187	178	187	0.0	1.0	0.466	54.9	-53.0	-6.6	53.4	187	0.0	1.0	0.467
188	179	188	0.0	1.0	0.483	55.0	-52.2	-7.8	52.8	188	0.0	1.0	0.483
189	180	189	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189	0.0	1.0	0.5
191	181	190	0.0	1.0	0.516	55.0	-50.6	-10.5	51.7	191	0.0	1.0	0.517
193	182	191	0.0	1.0	0.533	55.1	-49.7	-12.1	51.2	193	0.0	1.0	0.533
195	183	192	0.0	1.0	0.55	55.1	-48.8	-13.7	50.7	195	0.0	1.0	0.55
197	184	193	0.0	1.0	0.566	55.2	-47.8	-15.2	50.2	197	0.0	1.0	0.567
199	185	194	0.0	1.0	0.583	55.2	-46.8	-16.6	49.7	199	0.0	1.0	0.583
201	186	195	0.0	1.0	0.6	55.2	-45.8	-18.0	49.2	201	0.0	1.0	0.6
203	187	195	0.0	1.0	0.616	55.3	-44.7	-19.4	48.7	203	0.0	1.0	0.617
205	188	196	0.0	1.0	0.633	55.3	-43.8	-20.5	48.4	205	0.0	1.0	0.633
206	189	197	0.0	1.0	0.65	55.3	-43.3	-21.5	48.3	206	0.0	1.0	0.65
207	190	198	0.0	1.0	0.666	55.3	-42.7	-22.5	48.3	207	0.0	1.0	0.667
209	191	199	0.0	1.0	0.683	55.2	-42.1	-23.4	48.2	209	0.0	1.0	0.683
210	192	200	0.0	1.0	0.7	55.2	-41.5	-24.4	48.1	210	0.0	1.0	0.7
211	193	201	0.0	1.0	0.716	55.2	-40.8	-25.3	48.0	211	0.0	1.0	0.717
213	194	202	0.0	1.0	0.733	55.2	-40.2	-26.2	48.0	213	0.0	1.0	0.733
214	195	203	0.0	1.0	0.75	55.2	-39.5	-27.1	47.9	214	0.0	1.0	0.75
215	196	204	0.0	1.0	0.766	55.1	-39.2	-27.9	48.1	215	0.0	1.0	0.767
216	197	205	0.0	1.0	0.783	55.0	-38.8	-28.7	48.3	216	0.0	1.0	0.783
217	198	206	0.0	1.0	0.8	54.9	-38.5	-29.5	48.5	217	0.0	1.0	0.8
218	199	206	0.0	1.0	0.816	54.8	-38.1	-30.3	48.7	218	0.0	1.0	0.817
219	200	207	0.0	1.0	0.833	54.7	-37.7	-31.1	48.9	219	0.0	1.0	0.833
220	201	208	0.0	1.0	0.85	54.6	-37.3	-31.9	49.1	220	0.0	1.0	0.85
221	202	209	0.0	1.0	0.866	54.5	-36.9	-32.6	49.3	221	0.0	1.0	0.867
222	203	210	0.0	1.0	0.883	54.3	-36.4	-33.7	49.6	222	0.0	1.0	0.883
224	204	211	0.0	1.0	0.9	54.2	-35.6	-35.1	50.0	224	0.0	1.0	0.9
226	205	212	0.0	1.0	0.916	54.0	-34.8	-36.5	50.4	226	0.0	1.0	0.917
228	206	213	0.0	1.0	0.933	53.8	-33.9	-37.8	50.8	228	0.0	1.0	0.933
229	207	214	0.0	1.0	0.95	53.6	-33.0	-39.2	51.2	229	0.0	1.0	0.95
231	208	215	0.0	1.0	0.966	53.4	-32.0	-40.5	51.7	231	0.0	1.0	0.967
233	209	216	0.0	1.0	0.983	53.3	-31.0	-41.8	52.1	233	0.0	1.0	0.983
235	210	216	0.0	1.0	1.0	53.1	-30.0	-43.1	52.5	235	0.0	1.0	1.0

1-0031230-L0 SE190-70 LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 13/33

TUB-test chart SE19; 1080 standard colours
48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=0, $cmYK$

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmyk_d$

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, separationcmyn6 (CMYK)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours RYGBM_e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

The hue angles of the 11 basic colours (CIE 1931, 2° observer, 2 degree field, D65 illuminant, 2 degree field, 2 degree									
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Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours $RYGBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

[illegible]

1-0031430-L0	SE190-70	LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0
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TUB-test chart SE19; 1080 standard colours

48 step hue circles; *rgb-LabCh** tables, 3D=0, de=0, *cmymk*

input: $rgb/cmyk \rightarrow rgb_d$

output: transfer to $cmyk_d$

Output: Laser printer output; separation cmyn6*, D65, page 15/33

TUB registration: 20130201-SE19/SE19L0NP.PDF / .PS
application for measurement of laser printer output, sep

TUB material: code=rh4ta
myn6 (CMYK)

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd361Mi}$	$LAB^*_{dd361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$rgb^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$			
324	300	300	0.5 0.0 1.0	37.2 43.1 -30.8 53.0	324	0.136 0.0 1.0	31.6 24.3 -41.9 48.5	300	0.5 0.0 1.0	0.139 0.0 1.0	31.5 24.4 -41.9 48.6	300	0.5 0.0 1.0
325	301	301	0.516 0.0 1.0	37.4 43.8 -30.4 53.4	325	0.151 0.0 1.0	31.5 25.1 -41.6 48.7	301	0.517 0.0 1.0	0.153 0.0 1.0	31.5 25.2 -41.6 48.7	301	0.517 0.0 1.0
326	302	302	0.533 0.0 1.0	37.7 44.5 -29.9 53.7	326	0.165 0.0 1.0	31.4 25.9 -41.3 48.9	302	0.533 0.0 1.0	0.166 0.0 1.0	31.4 26.0 -41.3 48.9	302	0.533 0.0 1.0
326	303	303	0.55 0.0 1.0	37.9 45.3 -29.5 54.0	326	0.18 0.0 1.0	31.4 26.7 -41.0 49.0	303	0.55 0.0 1.0	0.18 0.0 1.0	31.4 26.7 -41.0 49.0	303	0.55 0.0 1.0
327	304	303	0.566 0.0 1.0	38.2 46.0 -29.0 54.4	327	0.194 0.0 1.0	31.3 27.5 -40.7 49.2	304	0.567 0.0 1.0	0.194 0.0 1.0	31.3 27.5 -40.7 49.2	303	0.567 0.0 1.0
328	305	304	0.583 0.0 1.0	38.4 46.7 -28.5 54.7	328	0.209 0.0 1.0	31.2 28.3 -40.3 49.4	305	0.583 0.0 1.0	0.208 0.0 1.0	31.2 28.3 -40.4 49.4	304	0.583 0.0 1.0
329	306	305	0.6 0.0 1.0	38.7 47.4 -28.0 55.1	329	0.224 0.0 1.0	31.1 29.1 -40.0 49.5	306	0.6 0.0 1.0	0.222 0.0 1.0	31.2 29.0 -40.0 49.5	305	0.6 0.0 1.0
330	307	306	0.616 0.0 1.0	38.9 48.1 -27.5 55.4	330	0.238 0.0 1.0	31.1 29.9 -39.6 49.7	307	0.617 0.0 1.0	0.235 0.0 1.0	31.1 29.8 -39.7 49.7	306	0.617 0.0 1.0
331	308	307	0.633 0.0 1.0	39.2 48.9 -26.9 55.8	331	0.252 0.0 1.0	31.1 30.7 -39.2 49.9	308	0.633 0.0 1.0	0.249 0.0 1.0	31.0 30.5 -39.3 49.8	307	0.633 0.0 1.0
332	309	308	0.65 0.0 1.0	39.6 49.8 -26.2 56.3	332	0.265 0.0 1.0	31.4 31.5 -38.8 50.1	309	0.65 0.0 1.0	0.261 0.0 1.0	31.3 31.3 -39.0 50.0	308	0.65 0.0 1.0
333	310	309	0.666 0.0 1.0	40.0 50.7 -25.4 56.8	333	0.278 0.0 1.0	31.8 32.3 -38.4 50.3	310	0.667 0.0 1.0	0.274 0.0 1.0	31.6 32.1 -38.6 50.2	309	0.667 0.0 1.0
334	311	310	0.683 0.0 1.0	40.4 51.6 -24.7 57.2	334	0.291 0.0 1.0	32.1 33.1 -38.0 50.5	311	0.683 0.0 1.0	0.286 0.0 1.0	32.0 32.8 -38.2 50.4	310	0.683 0.0 1.0
335	312	311	0.7 0.0 1.0	40.7 52.5 -23.9 57.7	335	0.304 0.0 1.0	32.4 33.9 -37.6 50.7	312	0.7 0.0 1.0	0.298 0.0 1.0	32.3 33.6 -37.8 50.6	311	0.7 0.0 1.0
336	313	312	0.716 0.0 1.0	41.1 53.4 -23.1 58.2	336	0.317 0.0 1.0	32.8 34.7 -37.2 50.9	313	0.717 0.0 1.0	0.31 0.0 1.0	32.6 34.3 -37.4 50.8	312	0.717 0.0 1.0
337	314	313	0.733 0.0 1.0	41.5 54.3 -22.3 58.7	337	0.33 0.0 1.0	33.1 35.5 -36.7 51.1	314	0.733 0.0 1.0	0.323 0.0 1.0	32.9 35.1 -37.0 51.0	313	0.733 0.0 1.0
338	315	314	0.75 0.0 1.0	41.8 55.1 -21.4 59.1	338	0.343 0.0 1.0	33.4 36.3 -36.2 51.4	315	0.75 0.0 1.0	0.335 0.0 1.0	33.2 35.8 -36.5 51.2	314	0.75 0.0 1.0
339	316	315	0.766 0.0 1.0	42.4 55.8 -20.9 59.6	339	0.356 0.0 1.0	33.8 37.1 -35.7 51.6	316	0.767 0.0 1.0	0.347 0.0 1.0	33.5 36.6 -36.0 51.4	315	0.767 0.0 1.0
340	317	316	0.783 0.0 1.0	42.9 56.5 -20.4 60.1	340	0.368 0.0 1.0	34.1 37.9 -35.2 51.8	317	0.783 0.0 1.0	0.359 0.0 1.0	33.9 37.3 -35.6 51.6	316	0.783 0.0 1.0
340	318	317	0.8 0.0 1.0	43.4 57.2 -19.8 60.5	340	0.384 0.0 1.0	34.5 38.6 -34.7 52.0	318	0.8 0.0 1.0	0.371 0.0 1.0	34.2 38.0 -35.1 51.8	317	0.8 0.0 1.0
341	319	318	0.816 0.0 1.0	43.9 57.8 -19.3 61.0	341	0.402 0.0 1.0	34.9 39.3 -34.1 52.1	319	0.817 0.0 1.0	0.387 0.0 1.0	34.6 38.8 -34.6 52.0	318	0.817 0.0 1.0
342	320	319	0.833 0.0 1.0	44.4 58.5 -18.7 61.4	342	0.42 0.0 1.0	35.3 40.1 -33.5 52.3	320	0.833 0.0 1.0	0.404 0.0 1.0	35.0 39.4 -34.0 52.2	319	0.833 0.0 1.0
342	321	320	0.85 0.0 1.0	44.9 59.1 -18.2 61.9	342	0.438 0.0 1.0	35.8 40.8 -32.9 52.5	321	0.85 0.0 1.0	0.421 0.0 1.0	35.4 40.1 -33.5 52.3	320	0.85 0.0 1.0
343	322	321	0.866 0.0 1.0	45.4 59.8 -17.6 62.3	343	0.456 0.0 1.0	36.2 41.5 -32.3 52.7	322	0.867 0.0 1.0	0.439 0.0 1.0	35.8 40.8 -32.9 52.5	321	0.867 0.0 1.0
344	323	321	0.883 0.0 1.0	45.8 60.5 -17.0 62.8	344	0.474 0.0 1.0	36.6 42.2 -31.7 52.8	323	0.883 0.0 1.0	0.456 0.0 1.0	36.2 41.5 -32.3 52.6	321	0.883 0.0 1.0
344	324	322	0.9 0.0 1.0	46.1 61.2 -16.4 63.4	344	0.492 0.0 1.0	37.1 42.9 -31.1 53.0	324	0.9 0.0 1.0	0.473 0.0 1.0	36.6 42.1 -31.7 52.8	322	0.9 0.0 1.0
345	325	323	0.916 0.0 1.0	46.5 61.9 -15.9 63.9	345	0.512 0.0 1.0	37.4 43.7 -30.5 53.3	325	0.917 0.0 1.0	0.49 0.0 1.0	37.0 42.8 -31.1 53.0	323	0.917 0.0 1.0
346	326	324	0.933 0.0 1.0	46.8 62.6 -15.3 64.5	346	0.532 0.0 1.0	37.7 44.5 -29.9 53.7	326	0.933 0.0 1.0	0.508 0.0 1.0	37.4 43.5 -30.6 53.2	324	0.933 0.0 1.0
346	327	325	0.95 0.0 1.0	47.1 63.3 -14.6 65.0	346	0.552 0.0 1.0	38.0 45.4 -29.4 54.1	327	0.95 0.0 1.0	0.527 0.0 1.0	37.6 44.3 -30.1 53.6	325	0.95 0.0 1.0
347	328	326	0.966 0.0 1.0	47.5 64.0 -14.0 65.5	347	0.572 0.0 1.0	38.3 46.2 -28.8 54.5	328	0.967 0.0 1.0	0.546 0.0 1.0	37.9 45.1 -29.5 54.0	326	0.967 0.0 1.0
348	329	327	0.983 0.0 1.0	47.8 64.7 -13.4 66.1	348	0.592 0.0 1.0	38.6 47.1 -28.2 54.9	329	0.983 0.0 1.0	0.565 0.0 1.0	38.2 46.0 -29.0 54.4	327	0.983 0.0 1.0
348	330	328	1.0 0.0 1.0	48.1 65.4 -12.7 66.6	348	M_s 0.612 0.0 1.0	38.9 47.9 -27.6 55.4	330	M_s 1.0 0.0 1.0	0.584 0.0 1.0	38.5 46.8 -28.4 54.8	328	M_e 1.0 0.0 1.0
349	331	329	1.0 0.0 0.983	48.3 65.5 -12.5 66.7	349	0.631 0.0 1.0	39.2 48.8 -26.9 55.8	331	1.0 0.0 0.983	0.603 0.0 1.0	38.8 47.6 -27.9 55.2	329	1.0 0.0 0.983
349	332	330	1.0 0.0 0.966	48.5 65.6 -12.2 66.7	349	0.646 0.0 1.0	39.6 49.6 -26.3 56.2	332	1.0 0.0 0.967	0.623 0.0 1.0	39.1 48.4 -27.3 55.6	330	1.0 0.0 0.966
349	333	331	1.0 0.0 0.95	48.7 65.7 -11.9 66.8	349	0.662 0.0 1.0	39.9 50.5 -25.6 56.7	333	1.0 0.0 0.95	0.638 0.0 1.0	39.4 49.2 -26.7 56.0	331	1.0 0.0 0.95
349	334	332	1.0 0.0 0.933	48.9 65.8 -11.7 66.8	349	0.677 0.0 1.0	40.3 51.3 -24.9 57.1	334	1.0 0.0 0.933	0.652 0.0 1.0	39.7 50.0 -26.0 56.4	332	1.0 0.0 0.933
350	335	333	1.0 0.0 0.916	49.0 65.9 -11.4 66.9	350	0.692 0.0 1.0	40.6 52.1 -24.2 57.5	335	1.0 0.0 0.917	0.667 0.0 1.0	40.0 50.8 -25.4 56.8	333	1.0 0.0 0.916
350	336	334	1.0 0.0 0.9	49.2 66.0 -11.1 66.9	350	0.708 0.0 1.0	41.0 53.0 -23.5 58.0	336	1.0 0.0 0.9	0.681 0.0 1.0	40.4 51.6 -24.7 57.2	334	1.0 0.0 0.9
350	337	335	1.0 0.0 0.883	49.4 66.1 -10.9 67.0	350	0.723 0.0 1.0	41.3 53.8 -22.7 58.4	337	1.0 0.0 0.883	0.696 0.0 1.0	40.7 52.3 -24.0 57.6	335	1.0 0.0 0.883
350	338	336	1.0 0.0 0.866	49.5 66.0 -10.4 66.9	350	0.738 0.0 1.0	41.6 54.6 -22.0 58.9	338	1.0 0.0 0.867	0.711 0.0 1.0	41.0 53.1 -23.3 58.1	336	1.0 0.0 0.866
351	339	337	1.0 0.0 0.85	49.4 65.8 -9.9 66.6	351	0.756 0.0 1.0	42.1 55.4 -21.2 59.4	339	1.0 0.0 0.85	0.725 0.0 1.0	41.3 53.9 -22.6 58.5	337	1.0 0.0 0.85
351	340	338	1.0 0.0 0.833	49.4 65.6 -9.3 66.3	351	0.78 0.0 1.0	42.8 56.4 -20.4 60.0	340	1.0 0.0 0.833	0.74 0.0 1.0	41.7 54.6 -21.9 58.9	338	1.0 0.0 0.833
352	341	339	1.0 0.0 0.816	49.4 65.4 -8.7 66.0	352	0.804 0.0 1.0	43.5 57.4 -19.7 60.7	341	1.0 0.0 0.817	0.757 0.0 1.0	42.1 55.5 -21.1 59.4	339	1.0 0.0 0.816
352	342	339	1.0 0.0 0.8	49.4 65.2 -8.2 65.7	352	0.828 0.0 1.0	44.3 58.3 -18.9 61.3	342	1.0 0.0 0.8	0.78 0.0 1.0	42.8 56.4 -20.4 60.0	339	1.0 0.0 0.8
353	343	340	1.0 0.0 0.783	49.3 65.0 -7.6 65.4	353	0.852 0.0 1.0	45.0 59.3 -18.0 62.0	343	1.0 0.0 0.783	0.802 0.0 1.0	43.5 57.3 -19.7 60.6	340	1.0 0.0 0.783
353	344	341	1.0 0.0 0.766	49.3 64.7 -7.1 65.1	353	0.877 0.0 1.0	45.7 60.2 -17.2 62.7	344	1.0 0.0 0.767	0.825 0.0 1.0	44.2 58.2 -19.0 61.3	341	1.0 0.0 0.766
354	345	342	1.0 0.0 0.75	49.3 64.5 -6.5 64.8	354	0.902 0.0 1.0	46.2 61.3 -16.3 63.5	345	1.0 0.0 0.75	0.848 0.0 1.0	44.9 59.1 -18.2 61.9	342	1.0 0.0 0.75

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$			$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}					$LAB^*_{ddx361Mi}(x=LabCh)$					$rgb^*_{ds361Mi}$					$LAB^*_{dsx361Mi}(x=LabCh)$					$rgb^*_{dd361Mi}$					$rgb^*_{de361Mi}$					$LAB^*_{dex361Mi}(x=LabCh)$					$rgb^*_{dd361Mi}$					rgb^*_{dd}					rgb^*_{ds}					rgb^*_{de}																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
354	345	342	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354	0.902	0.0	1.0	46.2	61.3	-16.3	63.5	345	1.0	0.0	0.75	0.848	0.0	1.0	44.9	59.1	-18.2	61.9	342	1.0	0.0	0.75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

1-0031630-L0 SE190-70 LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

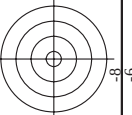
TUB-test chart SE19; 1080 standard colours
48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=0, $cmYK$

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmYK_d$

Output: Laser printer output; separation cmyn6*, D65, page 17/33

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, separationcmyn6 (CMYK)

TUB material: code=rha4ta



TUB material: code=rha4ta
myn6 (CMYK)

input: $rgb/cmyk \rightarrow rgbd$
output: transfer to $cmyk_d$

see similar files: <http://130.149.60.45/~farbmtrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmtrik>

Mean color difference of this page:

	H1C*Fid	rgb*Fid	icL*Fid	hsa*Fid	rgb*Fid	LabCh*Fid	LabCh*Fid	DF*Fid	hsa*Fid	rgb*Fid	LabCh*Fid	LabCh*Fid
43	R00Y.037.037a	0.375 0.0 0.125	0.375 0.375 0.187	390	0.375 0.0 0.118	32.7 21.4	32.7 21.4	14.1	25.7	33.4	31.0 26.1	31.0 26.1
44	R18Y.037.037a	0.375 0.0 0.125	0.375 0.375 0.187	391	0.375 0.0 0.118	32.7 21.4	32.7 21.4	8.7	22.9	32.7	31.0 26.1	31.0 26.1
45	B65R.037.037a	0.375 0.0 0.375	0.375 0.375 0.187	349	0.375 0.0 0.256	33.1 23.7	33.1 23.7	-0.6	23.7	358.3	32.8 30.2	32.8 30.2
46	B65R.037.037a	0.375 0.0 0.375	0.375 0.375 0.187	349	0.375 0.0 0.256	33.1 23.7	33.1 23.7	-0.6	23.7	358.3	32.8 30.2	32.8 30.2
47	B30R.060.050a	0.375 0.0 0.5	0.375 0.375 0.187	316	0.375 0.0 0.5	33.1 23.7	33.1 23.7	-0.6	23.7	358.3	32.8 30.2	32.8 30.2
48	B30R.060.050a	0.375 0.0 0.5	0.375 0.375 0.187	316	0.375 0.0 0.5	33.1 23.7	33.1 23.7	-0.6	23.7	358.3	32.8 30.2	32.8 30.2
49	B25R.075.075a	0.375 0.0 0.625	0.375 0.375 0.187	300	0.375 0.0 0.625	33.3 30.3	33.3 30.3	-17.2	34.6	339.4	32.8 30.2	32.8 30.2
50	B25R.075.075a	0.375 0.0 0.625	0.375 0.375 0.187	300	0.375 0.0 0.625	33.3 30.3	33.3 30.3	-17.2	34.6	339.4	32.8 30.2	32.8 30.2
51	B18R.100.100a	0.375 0.0 1.0	0.375 0.375 0.187	292	0.375 0.0 1.0	34.0 37.7	34.0 37.7	-35.3	51.7	316.8	32.8 30.2	32.8 30.2
52	R31Y.037.037a	0.375 0.125 0.0	0.375 0.375 0.187	49	0.375 0.125 0.0	38.0 13.3	38.0 13.3	21.8	25.5	316.8	32.8 30.2	32.8 30.2
53	R00Y.037.025a	0.375 0.125 0.125	0.375 0.375 0.187	49	0.375 0.125 0.125	38.0 13.3	38.0 13.3	21.8	25.5	316.8	32.8 30.2	32.8 30.2
54	R00Y.037.025a	0.375 0.125 0.125	0.375 0.375 0.187	49	0.375 0.125 0.125	38.0 13.3	38.0 13.3	21.8	25.5	316.8	32.8 30.2	32.8 30.2
55	B50R.037.025a	0.375 0.125 0.375	0.375 0.375 0.187	360	0.375 0.125 0.375	38.8 14.7	38.8 14.7	9.6	14.9	316.8	32.8 30.2	32.8 30.2
56	B50R.037.025a	0.375 0.125 0.375	0.375 0.375 0.187	360	0.375 0.125 0.375	38.8 14.7	38.8 14.7	9.6	14.9	316.8	32.8 30.2	32.8 30.2
57	B30R.060.037a	0.375 0.125 0.625	0.375 0.375 0.187	311	0.375 0.125 0.625	39.0 19.3	39.0 19.3	-9.2	21.4	348.9	32.8 30.2	32.8 30.2
58	B30R.060.037a	0.375 0.125 0.625	0.375 0.375 0.187	311	0.375 0.125 0.625	39.0 19.3	39.0 19.3	-9.2	21.4	348.9	32.8 30.2	32.8 30.2
59	B18R.100.075a	0.375 0.125 1.0	0.375 0.375 0.187	293	0.375 0.125 1.0	39.5 26.6	39.5 26.6	-27.9	38.2	317.9	32.8 30.2	32.8 30.2
60	B18R.100.075a	0.375 0.125 1.0	0.375 0.375 0.187	293	0.375 0.125 1.0	39.5 26.6	39.5 26.6	-27.9	38.2	317.9	32.8 30.2	32.8 30.2
61	R68Y.037.037a	0.375 0.25 0.0	0.375 0.375 0.187	71	0.375 0.25 0.0	44.4 2.0	44.4 2.0	27.7	27.8	85.7	32.8 30.2	32.8 30.2
62	R68Y.037.037a	0.375 0.25 0.0	0.375 0.375 0.187	71	0.375 0.25 0.0	44.4 2.0	44.4 2.0	27.7	27.8	85.7	32.8 30.2	32.8 30.2
63	R00Y.037.012a	0.375 0.25 0.375	0.375 0.375 0.187	390	0.375 0.25 0.375	44.8 7.1	44.8 7.1	4.7	8.3	348.9	32.8 30.2	32.8 30.2
64	R00Y.037.012a	0.375 0.25 0.375	0.375 0.375 0.187	390	0.375 0.25 0.375	44.8 7.1	44.8 7.1	4.7	8.3	348.9	32.8 30.2	32.8 30.2
65	B25R.050.025a	0.375 0.25 0.625	0.375 0.375 0.187	289	0.375 0.25 0.625	45.1 10.7	45.1 10.7	-7.7	13.2	348.9	32.8 30.2	32.8 30.2
66	B25R.050.025a	0.375 0.25 0.625	0.375 0.375 0.187	289	0.375 0.25 0.625	45.1 10.7	45.1 10.7	-7.7	13.2	348.9	32.8 30.2	32.8 30.2
67	B18R.100.025a	0.375 0.25 1.0	0.375 0.375 0.187	284	0.375 0.25 1.0	45.4 14.8	45.4 14.8	-12.9	24.8	306.6	32.8 30.2	32.8 30.2
68	B18R.100.025a	0.375 0.25 1.0	0.375 0.375 0.187	284	0.375 0.25 1.0	45.4 14.8	45.4 14.8	-12.9	24.8	306.6	32.8 30.2	32.8 30.2
69	Y00C.037.037a	0.375 0.375 0.0	0.375 0.375 0.187	90	0.375 0.375 0.0	49.2 5.9	49.2 5.9	31.7	32.3	100.3	32.8 30.2	32.8 30.2
70	Y00C.037.037a	0.375 0.375 0.0	0.375 0.375 0.187	90	0.375 0.375 0.0	49.2 5.9	49.2 5.9	31.7	32.3	100.3	32.8 30.2	32.8 30.2
71	Y00C.037.037a	0.375 0.375 0.0	0.375 0.375 0.187	90	0.375 0.375 0.0	49.2 5.9	49.2 5.9	31.7	32.3	100.3	32.8 30.2	32.8 30.2
72	NW.037a	0.375 0.375 0.375	0.375 0.375 0.187	360	0.375 0.375 0.375	50.8 0.0	50.8 0.0	0.0	0.0	100.5	32.8 30.2	32.8 30.2
73	NW.037a	0.375 0.375 0.375	0.375 0.375 0.187	360	0.375 0.375 0.375	50.8 0.0	50.8 0.0	0.0	0.0	100.5	32.8 30.2	32.8 30.2
74	B00R.050.012a	0.375 0.375 0.625	0.375 0.375 0.187	270	0.375 0.375 0.625	53.0 4.1	53.0 4.1	-11.1	11.9	290.8	32.8 30.2	32.8 30.2
75	B00R.050.012a	0.375 0.375 0.625	0.375 0.375 0.187	270	0.375 0.375 0.625	53.0 4.1	53.0 4.1	-11.1	11.9	290.8	32.8 30.2	32.8 30.2
76	B00R.050.012a	0.375 0.375 0.625	0.375 0.375 0.187	270	0.375 0.375 0.625	53.0 4.1	53.0 4.1	-11.1	11.9	290.8	32.8 30.2	32.8 30.2
77	B00R.050.012a	0.375 0.375 0.625	0.375 0.375 0.187	270	0.375 0.375 0.625	53.0 4.1	53.0 4.1	-11.1	11.9	290.8	32.8 30.2	32.8 30.2
78	Y23C.050.050a	0.375 0.5 0.5	0.375 0.375 0.187	109	0.375 0.5 0.5	57.1 10.4	57.1 10.4	43.2	44.5	103.6	32.8 30.2	32.8 30.2
79	Y31G.050.037a	0.375 0.5 0.25	0.375 0.375 0.187	121	0.375 0.5 0.25	55.6 10.4	55.6 10.4	28.7	30.5	109.8	32.8 30.2	32.8 30.2
80	Y50C.050.012a	0.375 0.5 0.25	0.375 0.375 0.187	121	0.375 0.5 0.25	55.6 10.4	55.6 10.4	28.7	30.5	109.8	32.8 30.2	32.8 30.2
81	G00B.050.012a	0.375 0.5 0.375	0.375 0.375 0.187	150	0.375 0.5 0.375	54.6 8.4	54.6 8.4	3.8	9.2	155.5	32.8 30.2	32.8 30.2
82	G00B.050.012a	0.375 0.5 0.375	0.375 0.375 0.187	150	0.375 0.5 0.375	54.6 8.4	54.6 8.4	3.8	9.2	155.5	32.8 30.2	32.8 30.2
83	G50B.062.025a	0.375 0.5 0.625	0.375 0.375 0.187	240	0.375 0.5 0.625	56.4 3.3	56.4 3.3	-12.3	12.7	254.9	32.8 30.2	32.8 30.2
84	G50B.062.025a	0.375 0.5 0.625	0.375 0.375 0.187	240	0.375 0.5 0.625	56.4 3.3	56.4 3.3	-12.3	12.7	254.9	32.8 30.2	32.8 30.2
85	G73B.062.025a	0.375 0.5 0.875	0.375 0.375 0.187	256	0.375 0.5 0.875	57.2 1.6	57.2 1.6	-24.1	24.2	273.8	32.8 30.2	32.8 30.2
86	G88B.087.037a	0.375 0.5 1.0	0.375 0.375 0.187	259	0.375 0.5 1.0	58.3 3.0	58.3 3.0	-29.7	29.9	273.8	32.8 30.2	32.8 30.2
87	G88B.087.037a	0.375 0.5 1.0	0.375 0.375 0.187	259	0.375 0.5 1.0	58.3 3.0	58.3 3.0	-29.7	29.9	273.8	32.8 30.2	32.8 30.2
88	Y38C.062.062a	0.375 0.625 0.0	0.375 0.625 0.312	113	0.375 0.625 0.0	58.5 20.8	58.5 20.8	41.9	46.6	115.8	32.8 30.2	32.8 30.2
89	Y38C.062.062a	0.375 0.625 0.0	0.375 0.625 0.312	113	0.375 0.625 0.0	58.5 20.8	58.5 20.8	41.9	46.6	115.8	32.8 30.2	32.8 30.2
90	Y68C.062.037a	0.375 0.625 0.375	0.375 0.625 0.312	131	0.375 0.625 0.375	56.8 19.5	56.8 19.5	16.7	25.5	139.4	32.8 30.2	32.8 30.2
91	G00B.062.025a	0.375 0.625 0.25	0.375 0.625 0.25	180	0.375 0.625 0.25	58.6 12.8	58.6 12.8	-2.2	13.0	189.8	32.8 30.2	32.8 30.2
92	G25B.062.025a	0.375 0.625 0.25	0.375 0.625 0.25	180	0.375 0.625 0.25	58.6 12.8	58.6 12.8	-2.2	13.0	189.8	32.8 30.2	32.8 30.2
93	G58B.075.037a	0.375 0.625 0.875	0.375 0.625 0.875	229	0.375 0.625 0.875	61.2 6.1	61.2 6.1	-18.2	20.2	244.5	32.8 30.2	32.8 30.2
94	G58B.075.037a	0.375 0.625 0.875	0.375 0.625 0.875	229	0.375 0.625 0.875	61.2 6.1	61.2 6.1	-18.2	20.2	244.5	32.8 30.2	32.8 30.2
95	G73B.087.050a	0.375 0.75 0.125	0.375 0.75 0.125	127	0.375 0.75 0.125	59.2 31.3	59.2 31.3	-28.9	30.3	127.3	32.8 30.2	32.8 30.2
96	G73B.087.050a	0.375 0.75 0.125	0.375 0.75 0.125	127	0.375 0.75 0.125	59.2 31.3	59.2 31.3	-28.9	30.3	127.3	32.8 30.2	32.8 30.2
97	Y38C.075.075a	0.375 0.75 0.375	0.375 0.75 0.375	156	0.375 0.75 0.375	62.2 11.5	62.2 11.5	-22.6	22.6	175.3	32.8 30.2	32.8 30.2
98	Y61G.075.062a	0.375 0.75 0.5	0.375									

<http://130.149.60.45/~farbmatrik/SE19/SE19L0NP.PDF> /PS; transfer output N; no 3D-linearization (OL) in file (F) or PS-startup (S), page 24/33

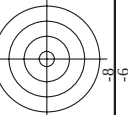
TUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=0, cmyk

input: *rgb/cmyk* → *rgb*
output: transfer to *cmyk*

-see similar files: <http://130.149.60.45/~farbmatrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

[illegible]

n	HVC-Fd	rgb-Fd	LabCH-Fd	rgb*F-d	LabCH*F-d	DF*F-d	rgb*F-d	LabCH*F-d	DF*F-d	rgb*F-d	LabCH*F-d							
405	R00Y.062.062a	0.625 0.0 0.0	38.6 35.7	0.0 0.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
406	R01Y.062.062a	0.625 0.0 0.125	38.7 35.7	0.114	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
407	R02Y.062.062a	0.625 0.0 0.25	38.7 35.7	0.239	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
408	R03Y.062.062a	0.625 0.0 0.375	38.7 35.7	0.364	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
409	B59R.062.062a	0.625 0.0 0.625	38.7 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
410	B59R.062.062a	0.625 0.0 0.625	38.7 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
411	B42R.062.075a	0.625 0.0 0.875	38.7 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
412	B36R.062.087a	0.625 0.0 1.0	38.7 35.7	1.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
413	B31R.100.100a	0.625 0.0 1.0	38.7 35.7	1.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
414	R18Y.062.062a	0.625 0.125 0.0	38.6 35.7	0.114	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
415	R26Y.062.062a	0.625 0.125 0.125	38.6 35.7	0.239	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
416	R26Y.062.062a	0.625 0.125 0.125	38.6 35.7	0.239	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
417	R06Y.062.050a	0.625 0.125 0.375	38.6 35.7	0.364	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
418	B61R.062.050a	0.625 0.125 0.375	38.6 35.7	0.364	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
419	B59R.062.050a	0.625 0.125 0.625	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
420	B40R.062.050a	0.625 0.125 0.625	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
421	B34R.062.075a	0.625 0.125 0.875	38.6 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
422	B29R.100.067a	0.625 0.125 1.0	38.6 35.7	1.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
423	R38Y.062.062a	0.625 0.25 0.0	38.6 35.7	0.239	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
424	R38Y.062.062a	0.625 0.25 0.0	38.6 35.7	0.239	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
425	R06Y.062.037a	0.625 0.25 0.375	38.6 35.7	0.364	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
426	R06Y.062.037a	0.625 0.25 0.375	38.6 35.7	0.364	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
427	B69R.062.037a	0.625 0.25 0.625	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
428	B69R.062.037a	0.625 0.25 0.625	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
429	B36R.062.050a	0.625 0.25 0.875	38.6 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
430	B36R.062.050a	0.625 0.25 0.875	38.6 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
431	B29R.100.075a	0.625 0.25 1.0	38.6 35.7	1.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
432	B59Y.062.062a	0.625 0.375 0.0	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
433	B59Y.062.062a	0.625 0.375 0.0	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
434	R31Y.062.037a	0.625 0.375 0.125	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
435	R06Y.062.025a	0.625 0.375 0.375	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
436	R06Y.062.025a	0.625 0.375 0.375	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
437	B59R.062.050a	0.625 0.375 0.625	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
438	B34R.075.037a	0.625 0.375 0.875	38.6 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
439	B25R.062.050a	0.625 0.375 1.0	38.6 35.7	1.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
440	R18Y.100.062a	0.625 0.5 0.0	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
441	R81Y.062.062a	0.625 0.5 0.125	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
442	R6Y.062.037a	0.625 0.5 0.375	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
443	R6Y.062.037a	0.625 0.5 0.375	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
444	R50Y.062.025a	0.625 0.5 0.625	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
445	R50Y.062.025a	0.625 0.5 0.625	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
446	R50Y.062.012a	0.625 0.5 0.875	38.6 35.7	0.51	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
447	B25R.075.025a	0.625 0.5 1.0	38.6 35.7	1.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
448	B18R.087.037a	0.625 0.5 1.0	38.6 35.7	1.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
449	B11R.100.050a	0.625 0.5 1.0	38.6 35.7	1.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
450	Y06G.062.050a	0.625 0.625 0.0	38.6 35.7	0.625	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
451	Y06G.062.050a	0.625 0.625 0.0	38.6 35.7	0.625	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
452	Y06G.062.037a	0.625 0.625 0.125	38.6 35.7	0.625	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
453	Y06G.062.037a	0.625 0.625 0.125	38.6 35.7	0.625	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
454	Y06G.062.025a	0.625 0.625 0.375	38.6 35.7	0.625	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
455	Y06G.062.025a	0.625 0.625 0.375	38.6 35.7	0.625	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
456	Y06G.062.012a	0.625 0.625 0.625	38.6 35.7	0.625	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
457	B00R.075.012a	0.625 0.625 0.625	38.6 35.7	0.625	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
458	B00R.087.025a	0.625 0.625 0.875	38.6 35.7	0.625	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
459	B00R.100.037a	0.625 0.625 1.0	38.6 35.7	1.0	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
460	Y15C.075.062a	0.625 0.75 0.125	38.6 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
461	Y15C.075.062a	0.625 0.75 0.125	38.6 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
462	Y15C.075.062a	0.625 0.75 0.125	38.6 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
463	Y15C.075.062a	0.625 0.75 0.125	38.6 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
464	G00B.075.025a	0.625 0.75 0.375	38.6 35.7	0.75	36.3 40.2	26.2	45.0	33.1	5.6	389	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
465	G00B.075.025a	0.625 0.75 0.375	38.6 35.7	0.75														

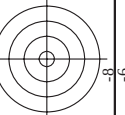


TUB material: code=rha4ta
myn6 (CMYK)

input: *rgb/cmyk* → *rgb*_d
output: transfer to *cmyk*_d

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n	H1C*Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb*Fid	LabCH*Fid	LabCH**Fid	rgb*hd	LabCH*hd	LabCH**hd	DE**Fid	hsa_d
567	R00Y_007_087a	0.875, 0.0, 0.125	0.875, 0.875, 0.437	390	0.875, 0.0, 0.116	44.6, 50.0, 33.1	43.6, 51.3, 60.2	0.875, 0.0, 0.125	43.2, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 389	1.0, 0.0, 0.133
568	R36Y_007_087a	0.875, 0.0, 0.125	0.875, 0.875, 0.437	392	0.875, 0.0, 0.116	44.6, 50.0, 33.1	43.6, 51.3, 60.2	0.875, 0.0, 0.125	43.2, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
569	R23Y_007_087a	0.875, 0.0, 0.125	0.875, 0.875, 0.437	374	0.875, 0.0, 0.123	44.5, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.0, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
570	R70K_007_087a	0.875, 0.0, 0.125	0.875, 0.875, 0.437	365	0.875, 0.0, 0.123	44.5, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.0, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
571	B70K_007_087a	0.875, 0.0, 0.125	0.875, 0.875, 0.437	355	0.875, 0.0, 0.123	44.5, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.0, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
572	B63K_007_087a	0.875, 0.0, 0.125	0.875, 0.875, 0.437	346	0.875, 0.0, 0.123	44.5, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.0, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
573	B56K_007_087a	0.875, 0.0, 0.125	0.875, 0.875, 0.437	338	0.875, 0.0, 0.123	44.5, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.0, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
574	B50K_007_087a	0.875, 0.0, 0.125	0.875, 0.875, 0.437	330	0.875, 0.0, 0.123	44.5, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.0, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
575	B44K_100_100a	0.875, 0.0, 0.125	0.875, 0.875, 0.437	323	0.875, 0.0, 0.123	44.5, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.0, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
576	R13Y_007_087a	0.875, 0.125, 0.0	0.875, 0.875, 0.437	38	0.875, 0.125, 0.0	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.125, 0.0	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
577	R00Y_007_075a	0.875, 0.125, 0.125	0.875, 0.75, 0.5	390	0.875, 0.125, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.125, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
578	R35Y_007_075a	0.875, 0.125, 0.125	0.875, 0.75, 0.5	381	0.875, 0.125, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.125, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
579	R18Y_007_075a	0.875, 0.125, 0.125	0.875, 0.75, 0.5	371	0.875, 0.125, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.125, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
580	R00Y_007_075a	0.875, 0.125, 0.125	0.875, 0.75, 0.5	360	0.875, 0.125, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.125, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
581	B63K_007_075a	0.875, 0.125, 0.125	0.875, 0.75, 0.5	349	0.875, 0.125, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.125, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
582	B57K_007_075a	0.875, 0.125, 0.125	0.875, 0.75, 0.5	339	0.875, 0.125, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.125, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
583	B43K_007_075a	0.875, 0.125, 0.125	0.875, 0.75, 0.5	330	0.875, 0.125, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.125, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
584	B43K_100_087a	0.875, 0.125, 0.125	0.875, 0.75, 0.5	322	0.875, 0.125, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.125, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
585	R26Y_007_087a	0.875, 0.25, 0.0	0.875, 0.875, 0.437	46	0.875, 0.25, 0.0	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.25, 0.0	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
586	R15Y_007_075a	0.875, 0.25, 0.125	0.875, 0.75, 0.5	39	0.875, 0.25, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.25, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
587	R00Y_007_062a	0.875, 0.25, 0.125	0.875, 0.625, 0.562	379	0.875, 0.25, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.25, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
588	R31Y_007_062a	0.875, 0.25, 0.125	0.875, 0.625, 0.562	367	0.875, 0.25, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.25, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
589	B60K_007_062a	0.875, 0.25, 0.125	0.875, 0.625, 0.562	353	0.875, 0.25, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.25, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
590	B53K_007_062a	0.875, 0.25, 0.125	0.875, 0.625, 0.562	341	0.875, 0.25, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.25, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
591	B47K_100_075a	0.875, 0.25, 0.125	0.875, 0.625, 0.562	329	0.875, 0.25, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.25, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
592	B43K_100_075a	0.875, 0.25, 0.125	0.875, 0.625, 0.562	321	0.875, 0.25, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.25, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
593	R41Y_007_075a	0.875, 0.375, 0.0	0.875, 0.875, 0.437	55	0.875, 0.375, 0.0	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.0	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
594	R13Y_007_075a	0.875, 0.375, 0.125	0.875, 0.75, 0.5	49	0.875, 0.375, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
595	R00Y_007_062a	0.875, 0.375, 0.125	0.875, 0.625, 0.562	41	0.875, 0.375, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
596	R00Y_007_050a	0.875, 0.375, 0.125	0.875, 0.5, 0.625	390	0.875, 0.375, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
597	R26Y_007_050a	0.875, 0.375, 0.125	0.875, 0.5, 0.625	376	0.875, 0.375, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
598	R00Y_007_050a	0.875, 0.375, 0.125	0.875, 0.5, 0.625	360	0.875, 0.375, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
599	B61K_007_050a	0.875, 0.375, 0.125	0.875, 0.5, 0.625	344	0.875, 0.375, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
600	B50K_007_050a	0.875, 0.375, 0.125	0.875, 0.5, 0.625	330	0.875, 0.375, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
601	B40K_100_062a	0.875, 0.375, 0.125	0.875, 0.5, 0.625	319	0.875, 0.375, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
602	B40K_100_062a	0.875, 0.375, 0.125	0.875, 0.5, 0.625	319	0.875, 0.375, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.375, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
603	R58Y_007_075a	0.875, 0.5, 0.0	0.875, 0.875, 0.437	65	0.875, 0.5, 0.0	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.5, 0.0	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
604	R50Y_007_075a	0.875, 0.5, 0.125	0.875, 0.75, 0.5	60	0.875, 0.5, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.5, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
605	R38Y_007_062a	0.875, 0.5, 0.125	0.875, 0.625, 0.562	53	0.875, 0.5, 0.125	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.5, 0.125	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
606	R23Y_007_050a	0.875, 0.5, 0.375	0.875, 0.375, 0.687	390	0.875, 0.5, 0.375	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.5, 0.375	43.0, 51.3, 60.2	47.5, 57.2, 68.6	2.1, 382	1.0, 0.0, 0.133
607	R00Y_007_037a	0.875, 0.5, 0.375	0.875, 0.375, 0.687	371	0.875, 0.5, 0.375	44.6, 50.0, 33.1	43.2, 51.3, 60.2	0.875, 0.5, 0.375	43.0, 51.3, 60.2	47.5, 57.2, 68.6		



TUB material: code=rha4ta
myn6 (CMYK)

TUB-test chart SE19; 1080 standard colours
 colors and differences, ΔE^* , 3D=0, de=0, *cmYk*
 input: *rgb/cmyk* - > *rgb*
 output: transfer to *cmYk*

[illegible]

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1-0032730-F0

n	H1C*Fd	rgb_Fd	icr_Fd	hsa_Fd	rgb_Fd	LabCH*Fd	rgb_Fd	LabCH*Fd	DF*Fd	hsa_Fd	rgb_Fd	LabCH*Nd	DF*Nd	hsa_Nd	rgb_Nd	LabCH*Nd
891	NW_100d	1.0	1.0	1.0	1.0	95.8	0.0	95.8	0.1	360	1.0	95.8	0.1	360	1.0	95.8
892	B50R_100.012d	1.0	0.875	1.0	0.875	8.8	0.0	8.8	0.1	360	1.0	8.8	0.1	360	1.0	8.8
893	B50R_100.025d	1.0	0.75	1.0	0.75	16.3	0.0	16.3	0.1	360	1.0	16.3	0.1	360	1.0	16.3
894	B50R_100.037d	1.0	0.625	1.0	0.625	23.7	0.0	23.7	0.1	360	1.0	23.7	0.1	360	1.0	23.7
895	B50R_100.050d	1.0	0.5	1.0	0.5	31.2	0.0	31.2	0.1	360	1.0	31.2	0.1	360	1.0	31.2
896	B50R_100.062d	1.0	0.375	1.0	0.375	38.6	0.0	38.6	0.1	360	1.0	38.6	0.1	360	1.0	38.6
897	B50R_100.075d	1.0	0.25	1.0	0.25	46.0	0.0	46.0	0.1	360	1.0	46.0	0.1	360	1.0	46.0
898	B50R_100.087d	1.0	0.125	1.0	0.125	53.4	0.0	53.4	0.1	360	1.0	53.4	0.1	360	1.0	53.4
899	B50R_100.100d	1.0	0.0	1.0	0.0	60.8	0.0	60.8	0.1	360	1.0	60.8	0.1	360	1.0	60.8
900	GOB_100.012d	0.875	1.0	0.875	1.0	95.8	0.0	95.8	0.1	360	1.0	95.8	0.1	360	1.0	95.8
901	NW_087d	0.875	0.875	0.875	0.875	8.8	0.0	8.8	0.1	360	1.0	8.8	0.1	360	1.0	8.8
902	B50R_087.012d	0.875	0.75	0.875	0.875	16.3	0.0	16.3	0.1	360	1.0	16.3	0.1	360	1.0	16.3
903	B50R_087.025d	0.875	0.625	0.875	0.875	23.7	0.0	23.7	0.1	360	1.0	23.7	0.1	360	1.0	23.7
904	B50R_087.037d	0.875	0.5	0.875	0.875	31.2	0.0	31.2	0.1	360	1.0	31.2	0.1	360	1.0	31.2
905	B50R_087.050d	0.875	0.375	0.875	0.875	38.6	0.0	38.6	0.1	360	1.0	38.6	0.1	360	1.0	38.6
906	B50R_087.062d	0.875	0.25	0.875	0.875	46.0	0.0	46.0	0.1	360	1.0	46.0	0.1	360	1.0	46.0
907	B50R_087.075d	0.875	0.125	0.875	0.875	53.4	0.0	53.4	0.1	360	1.0	53.4	0.1	360	1.0	53.4
908	B50R_087.087d	0.875	0.0	0.875	0.875	60.8	0.0	60.8	0.1	360	1.0	60.8	0.1	360	1.0	60.8
909	GOB_100.025d	0.75	1.0	0.75	1.0	95.8	0.0	95.8	0.1	360	1.0	95.8	0.1	360	1.0	95.8
910	GOB_100.037d	0.75	0.875	0.75	0.875	8.8	0.0	8.8	0.1	360	1.0	8.8	0.1	360	1.0	8.8
911	NW_075d	0.75	0.75	0.75	0.75	16.3	0.0	16.3	0.1	360	1.0	16.3	0.1	360	1.0	16.3
912	B50R_075.012d	0.75	0.625	0.75	0.75	23.7	0.0	23.7	0.1	360	1.0	23.7	0.1	360	1.0	23.7
913	B50R_075.025d	0.75	0.5	0.75	0.75	31.2	0.0	31.2	0.1	360	1.0	31.2	0.1	360	1.0	31.2
914	B50R_075.037d	0.75	0.375	0.75	0.75	38.6	0.0	38.6	0.1	360	1.0	38.6	0.1	360	1.0	38.6
915	B50R_075.050d	0.75	0.25	0.75	0.75	46.0	0.0	46.0	0.1	360	1.0	46.0	0.1	360	1.0	46.0
916	B50R_075.062d	0.75	0.125	0.75	0.75	53.4	0.0	53.4	0.1	360	1.0	53.4	0.1	360	1.0	53.4
917	B50R_075.075d	0.75	0.0	0.75	0.75	60.8	0.0	60.8	0.1	360	1.0	60.8	0.1	360	1.0	60.8
918	GOB_100.037d	0.625	1.0	0.625	1.0	95.8	0.0	95.8	0.1	360	1.0	95.8	0.1	360	1.0	95.8
919	GOB_100.050d	0.625	0.875	0.625	0.875	8.8	0.0	8.8	0.1	360	1.0	8.8	0.1	360	1.0	8.8
920	GOB_100.062d	0.625	0.75	0.625	0.75	16.3	0.0	16.3	0.1	360	1.0	16.3	0.1	360	1.0	16.3
921	GOB_100.075d	0.625	0.625	0.625	0.625	23.7	0.0	23.7	0.1	360	1.0	23.7	0.1	360	1.0	23.7
922	B50R_062.012d	0.625	0.5	0.625	0.625	31.2	0.0	31.2	0.1	360	1.0	31.2	0.1	360	1.0	31.2
923	B50R_062.025d	0.625	0.375	0.625	0.625	38.6	0.0	38.6	0.1	360	1.0	38.6	0.1	360	1.0	38.6
924	B50R_062.037d	0.625	0.25	0.625	0.625	46.0	0.0	46.0	0.1	360	1.0	46.0	0.1	360	1.0	46.0
925	B50R_062.050d	0.625	0.125	0.625	0.625	53.4	0.0	53.4	0.1	360	1.0	53.4	0.1	360	1.0	53.4
926	B50R_062.062d	0.625	0.0	0.625	0.625	60.8	0.0	60.8	0.1	360	1.0	60.8	0.1	360	1.0	60.8
927	GOB_100.050d	0.5	1.0	0.5	1.0	95.8	0.0	95.8	0.1	360	1.0	95.8	0.1	360	1.0	95.8
928	GOB_087.037d	0.5	0.875	0.5	0.875	8.8	0.0	8.8	0.1	360	1.0	8.8	0.1	360	1.0	8.8
929	GOB_087.050d	0.5	0.75	0.5	0.75	16.3	0.0	16.3	0.1	360	1.0	16.3	0.1	360	1.0	16.3
930	GOB_087.062d	0.5	0.625	0.5	0.625	23.7	0.0	23.7	0.1	360	1.0	23.7	0.1	360	1.0	23.7
931	NW_050d	0.5	0.5	0.5	0.5	31.2	0.0	31.2	0.1	360	1.0	31.2	0.1	360	1.0	31.2
932	B50R_050.012d	0.5	0.375	0.5	0.375	38.6	0.0	38.6	0.1	360	1.0	38.6	0.1	360	1.0	38.6
933	B50R_050.025d	0.5	0.25	0.5	0.25	46.0	0.0	46.0	0.1	360	1.0	46.0	0.1	360	1.0	46.0
934	B50R_050.037d	0.5	0.125	0.5	0.125	53.4	0.0	53.4	0.1	360	1.0	53.4	0.1	360	1.0	53.4
935	B50R_050.050d	0.5	0.0	0.5	0.0	60.8	0.0	60.8	0.1	360	1.0	60.8	0.1	360	1.0	60.8
936	GOB_100.062d	0.375	1.0	0.375	1.0	95.8	0.0	95.8	0.1	360	1.0	95.8	0.1	360	1.0	95.8
937	GOB_087.050d	0.375	0.875	0.375	0.875	8.8	0.0	8.8	0.1	360	1.0	8.8	0.1	360	1.0	8.8
938	GOB_087.062d	0.375	0.75	0.375	0.75	16.3	0.0	16.3	0.1	360	1.0	16.3	0.1	360	1.0	16.3
939	GOB_087.075d	0.375	0.625	0.375	0.625	23.7	0.0	23.7	0.1	360	1.0	23.7	0.1	360	1.0	23.7
940	GOB_087.087d	0.375	0.5	0.375	0.5	31.2	0.0	31.2	0.1	360	1.0	31.2	0.1	360	1.0	31.2
941	NW_037d	0.375	0.375	0.375	0.375	38.6	0.0	38.6	0.1	360	1.0	38.6	0.1	360	1.0	38.6
942	B50R_037.012d	0.375	0.25	0.375	0.375	46.0	0.0	46.0	0.1	360	1.0	46.0	0.1	360	1.0	46.0
943	B50R_037.025d	0.375	0.125	0.375	0.375	53.4	0.0	53.4	0.1	360	1.0	53.4	0.1	360	1.0	53.4
944	B50R_037.037d	0.375	0.0	0.375	0.375	60.8	0.0	60.8	0.1	360	1.0	60.8	0.1	360	1.0	60.8
945	GOB_100.075d	0.25	1.0	0.25	1.0	95.8	0.0	95.8	0.1	360	1.0	95.8	0.1	360	1.0	95.8
946	GOB_087.062d	0.25	0.875	0.25	0.875	8.8	0.0	8.8	0.1	360	1.0	8.8	0.1	360	1.0	8.8
947	GOB_087.075d	0.25	0.75	0.25	0.75	16.3	0.0	16.3	0.1	360	1.0	16.3	0.1	360	1.0	16.3
948	GOB_087.087d	0.25	0.625	0.25	0.625	23.7	0.0	23.7	0.1	360	1.0	23.7	0.1	360	1.0	23.7
949	GOB_087.090d	0.25	0.5	0.25	0.5	31.2	0.0	31.2	0.1	360	1.0	31.2	0.1	360	1.0	31.2
950	GOB_087.102d	0.25	0.375	0.25	0.375	38.6	0.0	38.6	0.1	360	1.0	38.6	0.1	360	1.0	38.6
951	NW_025d	0.25	0.25	0.25	0.25	46.0	0.0	46.0	0.1	360	1.0	46.0	0.1	360	1.0	46.0
952	B50R_025.012d	0.25	0.125	0.25	0.25	53.4	0.0	53.4	0.1	360	1.0	53.4	0.1	360	1.0	53.4
953	B50R_025.025d	0.25	0.0	0.25	0.25	60.8	0.0	60.8	0.1	360	1.0	60.8	0.1	360	1.0	60.8
954	GOB_100.087d	0.125	1.0	0.125	1.0	95.8	0.0	95.8	0.1	360	1.0	95.8	0.1	360	1.0	95.8
955	GOB_087.075d	0.125	0.875	0.125	0.875	8.8	0.0	8.8	0.1	360	1.0	8.8	0.1	360	1.0	8.8
956	GOB_087.062d	0.125	0.75	0.125	0.75	16.3	0.0	16.3	0.1	360	1.0	16.3	0.1	360	1.0	16.3
957	GOB_087.050d	0.125	0.625	0.125	0.625	23.7	0.0	23.7	0.1	360	1.0	23.7	0.1	360	1.0	23.7
958	GOB_087.037d	0.125	0.5	0.125	0.5	31.2	0.0	31.2	0.1	360	1.0	31.2	0.1	360	1.0	31.2
959	GOB_087.025d	0.125	0.375	0.125	0.375	38.6	0.0	38.6	0.1	360	1.0	38.6	0.1	360	1.0	38.6
960	GOB_087.012d	0.125	0.25	0.125	0.25	46.0	0.0	46.0	0.1	360	1.0	46.0	0.1	360	1.0	46.0
961	NW_012d	0.125	0.125	0.125	0.125	53.4	0.0	53.4	0.1	360	1.0	53.4	0.1	360	1.0	53.4
962	B50R_012.012d	0.125	0.0	0.125	0.125	60.8	0.0	60.8	0.1	360	1.0	60.8	0.1	360	1.0	60.8
963	GOB_100.100d	0.0	1.0	0.0	1.0	95.8	0.0	95.8	0.1	360	1.0	95.8	0.1	360	1.0	95.8
964	GOB_087.087d	0.0	0.875	0.0	0.875	8.8	0.0	8.8	0.1	360	1.0	8.8	0.1	360	1.0	8.8
965	GOB_087.075d	0.0	0.75	0.0	0.75	16.3	0.0	16.3	0.1	360	1.0	16.3	0.1	360	1.0	16.3
966	GOB_087.062d	0.0	0.6													

<http://130.149.60.45/~farbmatrik/SE19/SE19LONP.PDF> /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 32/33

n	H1C*Fid	rgb_Fid	ic1_Fid	h1a_Fid	rgb_Fid	LabCH*Fid	LabCH*Fid	DF**Fid	h1a_Fid	rgb_Fid	LabCH*Fid
972	NW_0004	0.0	0.0	0.0	0.0	0.0	22.5	0.0	0.0	0.0	0.0
973	NW_0124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
974	NW_0254	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
975	NW_0374	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
976	NW_0504	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
977	NW_0624	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
978	NW_0754	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
979	NW_0874	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
980	NW_1004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
981	NW_0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
982	NW_0124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
983	NW_0254	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
984	NW_0374	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
985	NW_0504	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
986	NW_0624	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
987	NW_0754	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
988	NW_0874	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
989	NW_1004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
990	NW_0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
991	NW_0124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
992	NW_0254	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
993	NW_0374	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
994	NW_0504	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
995	NW_0624	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
996	NW_0754	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
997	NW_0874	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
998	NW_1004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
999	NW_0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1000	NW_0124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1001	NW_0254	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1002	NW_0374	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1003	NW_0504	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1004	NW_0624	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1005	NW_0754	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1006	NW_0874	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1007	NW_1004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1008	NW_0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1009	NW_0124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1010	NW_0254	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1011	NW_0374	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1012	NW_0504	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1013	NW_0624	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1014	NW_0754	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1015	NW_0874	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1016	NW_1004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1017	NW_0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1018	NW_0124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1019	NW_0254	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1020	NW_0374	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1021	NW_0504	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1022	NW_0624	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1023	NW_0754	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1024	NW_0874	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1025	NW_1004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1026	NW_0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1027	NW_0124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1028	NW_0254	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1029	NW_0374	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1030	NW_0504	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1031	NW_0624	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1032	NW_0754	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1033	NW_0874	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1034	NW_1004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1035	NW_0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1036	NW_0124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1037	NW_0254	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1038	NW_0374	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1039	NW_0504	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1040	NW_0624	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1041	NW_0754	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1042	NW_0874	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1043	NW_1004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1044	NW_0004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1045	NW_0124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
1046	NW_0254	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
1047	NW_0374	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
1048	NW_0504	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1049	NW_0624	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
1050	NW_0754	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
1051	NW_0874	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
1052	NW_1004	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

SE190-77N, Page 32/33-F

TUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=0, cmyk

input: *rgb/cmyk* -> *rgba*
output: transfer to *cmykd*

Mean color difference of this page:

delta E** = 3.2

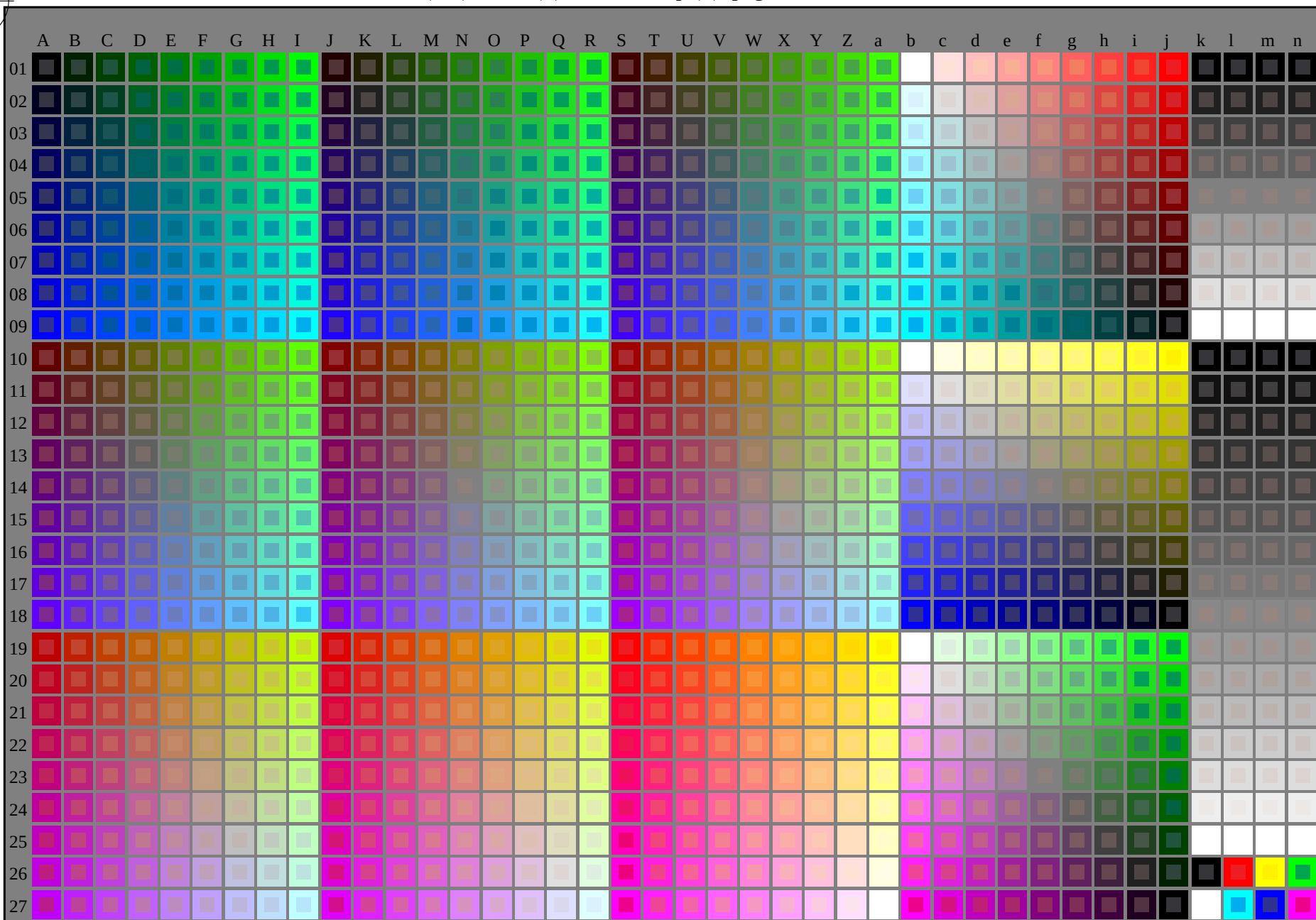
n	HfC*Fd	rgb_Fd	icT_Fd	h ₈ _Fd	rgb*_Fd	LabCh*_Fd	h ₈ _Fd	rgb*_Fd	LabCh*_Fd	DE*Fd	h ₈ _d	rgb*_Md	LabCh*_Md
1053	NW_086q	0.866 0.866 0.866	0.866 0.866 0.866	360 360 360	0.866 0.866 0.866	86.1 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	90.6 0.0 0.0	266.5 4.4 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1054	NW_093d	0.933 0.933 0.933	0.933 0.933 0.933	360 360 360	0.933 0.933 0.933	91.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	94.4 0.0 0.0	278.1 3.4 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1055	NW_100d	1.0 1.0 1.0	1.0 1.0 1.0	360 360 360	1.0 1.0 1.0	95.8 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	95.8 0.0 0.0	152.8 0.0 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1056	NW_006d	0.066 0.066 0.066	0.066 0.066 0.066	360 360 360	0.066 0.066 0.066	23.8 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	18.1 0.0 0.0	83.2 5.6 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1057	NW_013d	0.133 0.133 0.133	0.133 0.133 0.133	360 360 360	0.133 0.133 0.133	33.4 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	21.5 0.1 0.1	48.9 7.0 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1058	NW_026d	0.266 0.266 0.266	0.266 0.266 0.266	360 360 360	0.266 0.266 0.266	38.2 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	28.9 0.0 0.0	268.2 4.4 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1060	NW_026d	0.266 0.266 0.266	0.266 0.266 0.266	360 360 360	0.266 0.266 0.266	38.2 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	28.9 0.0 0.0	267.2 1.4 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1061	NW_033d	0.333 0.333 0.333	0.333 0.333 0.333	360 360 360	0.333 0.333 0.333	47.8 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	37.3 0.0 0.0	269.1 1.7 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1062	NW_040d	0.4 0.4 0.4	0.4 0.4 0.4	360 360 360	0.4 0.4 0.4	52.6 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	44.2 0.0 0.0	273.2 1.4 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1063	NW_046d	0.466 0.466 0.466	0.466 0.466 0.466	360 360 360	0.466 0.466 0.466	57.3 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	49.9 0.0 0.0	268.9 2.6 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1064	NW_053d	0.533 0.533 0.533	0.533 0.533 0.533	360 360 360	0.533 0.533 0.533	62.2 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	65.4 0.0 0.0	273.1 3.3 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1065	NW_060d	0.6 0.6 0.6	0.6 0.6 0.6	360 360 360	0.6 0.6 0.6	67.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	70.2 0.0 0.0	268.8 3.2 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1066	NW_066d	0.666 0.666 0.666	0.666 0.666 0.666	360 360 360	0.666 0.666 0.666	71.7 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	75.5 0.0 0.0	271.9 3.8 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1067	NW_073d	0.734 0.734 0.734	0.734 0.734 0.734	360 360 360	0.734 0.734 0.734	76.6 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	80.8 0.0 0.0	265.0 4.1 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1068	NW_080d	0.8 0.8 0.8	0.8 0.8 0.8	360 360 360	0.8 0.8 0.8	81.4 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	85.3 0.0 0.0	279.5 3.9 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1069	NW_086d	0.866 0.866 0.866	0.866 0.866 0.866	360 360 360	0.866 0.866 0.866	86.1 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	90.2 0.0 0.0	252.2 4.0 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1070	NW_093d	0.933 0.933 0.933	0.933 0.933 0.933	360 360 360	0.933 0.933 0.933	91.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	94.2 0.0 0.0	289.2 3.2 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1071	NW_100d	1.0 1.0 1.0	1.0 1.0 1.0	360 360 360	1.0 1.0 1.0	95.8 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	95.8 0.0 0.0	331.9 0.1 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1072	NW_000d	0.0 0.0 0.0	0.0 0.0 0.0	360 360 360	0.0 0.0 0.0	23.8 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	19.2 0.1 0.1	58.1 4.6 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1073	ROY_100_100d	1.0 0.0 0.0	1.0 0.0 0.0	360 360 360	1.0 0.0 0.0	95.8 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	95.7 0.0 0.0	284.6 0.2 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1074	G50C_100_100d	0.0 1.0 0.0	0.0 1.0 0.0	360 360 360	0.0 1.0 0.0	47.5 57.2 37.8	33.4 68.6 52.5	235.1 33.4 68.6	56.3 40.2 69.2	35.5 2.6 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1075	Y06C_100_100d	0.0 0.0 1.0	0.0 0.0 1.0	360 360 360	0.0 0.0 1.0	53.1 -30.0 -43.1	52.5 -15.8 -44.6	235.1 33.4 68.6	56.3 40.2 69.2	35.5 2.6 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1076	Y06C_100_100d	0.0 1.0 0.0	0.0 1.0 0.0	360 360 360	0.0 1.0 0.0	53.1 -30.0 -43.1	52.5 -15.8 -44.6	235.1 33.4 68.6	56.3 40.2 69.2	35.5 2.6 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1077	B06C_100_100d	0.0 0.0 1.0	0.0 0.0 1.0	360 360 360	0.0 0.0 1.0	53.1 -30.0 -43.1	52.5 -15.8 -44.6	235.1 33.4 68.6	56.3 40.2 69.2	35.5 2.6 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1078	B06C_100_100d	0.0 1.0 0.0	0.0 1.0 0.0	360 360 360	0.0 1.0 0.0	53.1 -30.0 -43.1	52.5 -15.8 -44.6	235.1 33.4 68.6	56.3 40.2 69.2	35.5 2.6 360	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0
1079	B50R_100_100d	1.0 0.0 0.0	1.0 0.0 0.0	360 360 360	1.0 0.0 0.0	46.1 65.4 -12.7	66.6 74.3 38.8	348.3 66.6 74.3	48.3 65.4 -12.7	348.3 66.6 74.3	360 1.0 1.0	1.0 1.0 1.0	95.8 0.0 0.0

Mean color difference of this page: delta E* = 3.0

input: rgb/cmyk -> rgba
output: transfer to cmykd

TUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=0, cmyk

see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



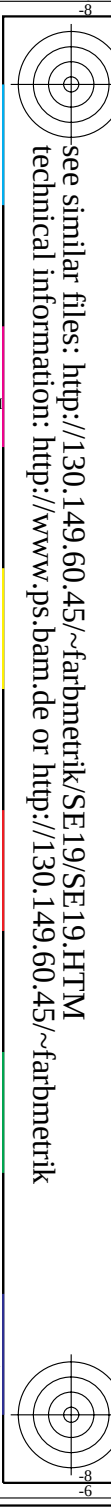
1-013030-L0

SE190-7N

Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): **rgb + cmy0** (A-j + k26_n27), 000n (k), w (l), nnn0 (m), www (n), 3D = 0

TUB-test chart SE19; 1080 standard colours
Test chart according to DIN 33872

input: *rgb/cmyk* -> *rgb/cmyk*
output: no change

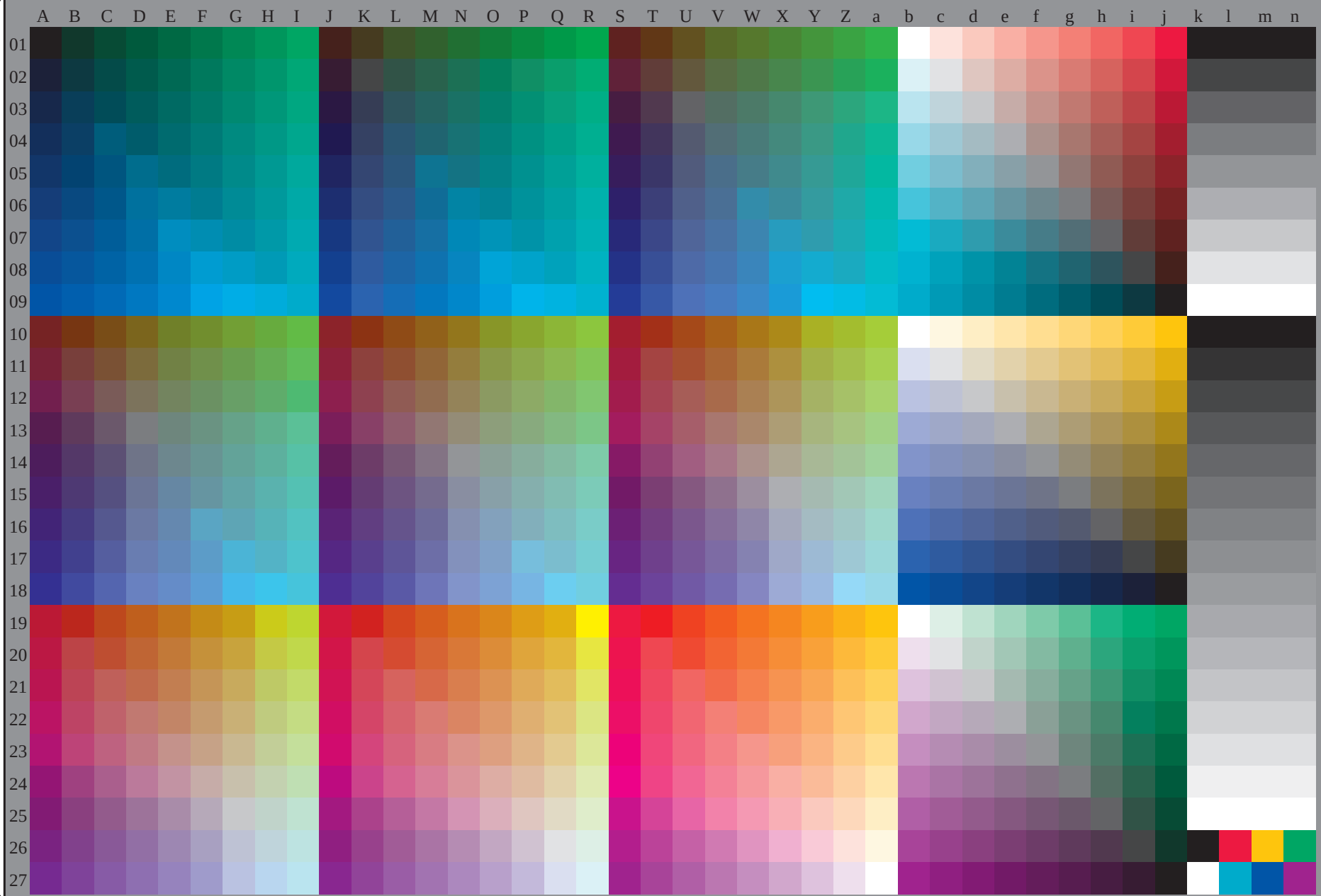


http://130.149.60.45/~farbmetrik/SE19/SE19L0NP.PDF /.PS; transfer output

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 2/33

see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS TUB material: code=rha4ta
application for measurement of laser printer output, separationcmyk6 (CMYK)



1-013130-L0

SE190-71

Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): $rgb(A_n)$, $3D=0$

TUB-test chart SE19; 1080 standard colours

Test chart according to DIN 33872, $3D=0$, $de=1$, $cmyk$ input: $rgb/cmyk \rightarrow rgb_e$ output: transfer to $cmyk_e$

1-013130-F0

C

M

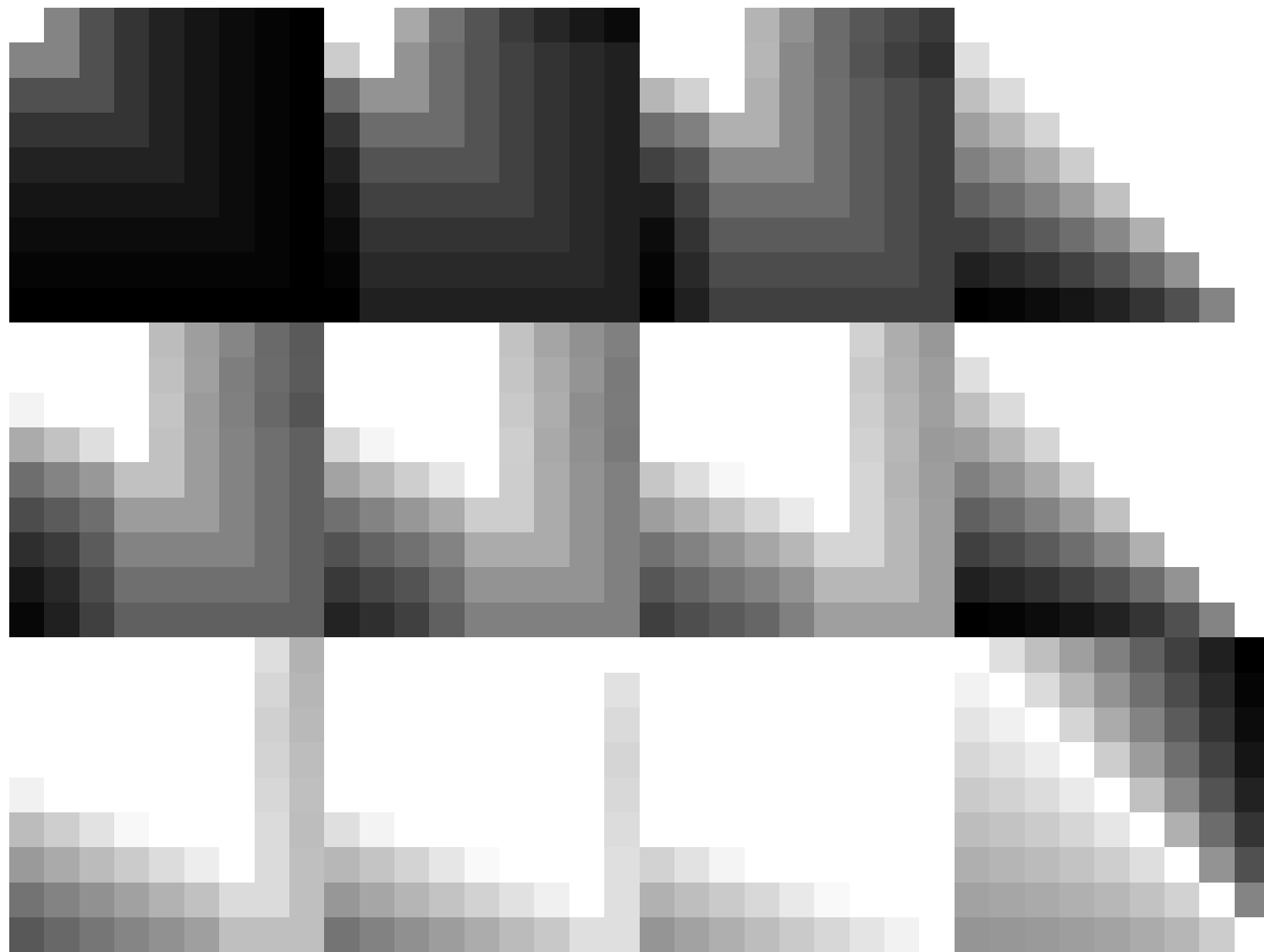
Y

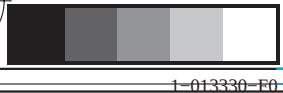
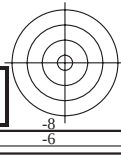
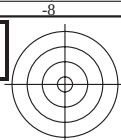
O

L

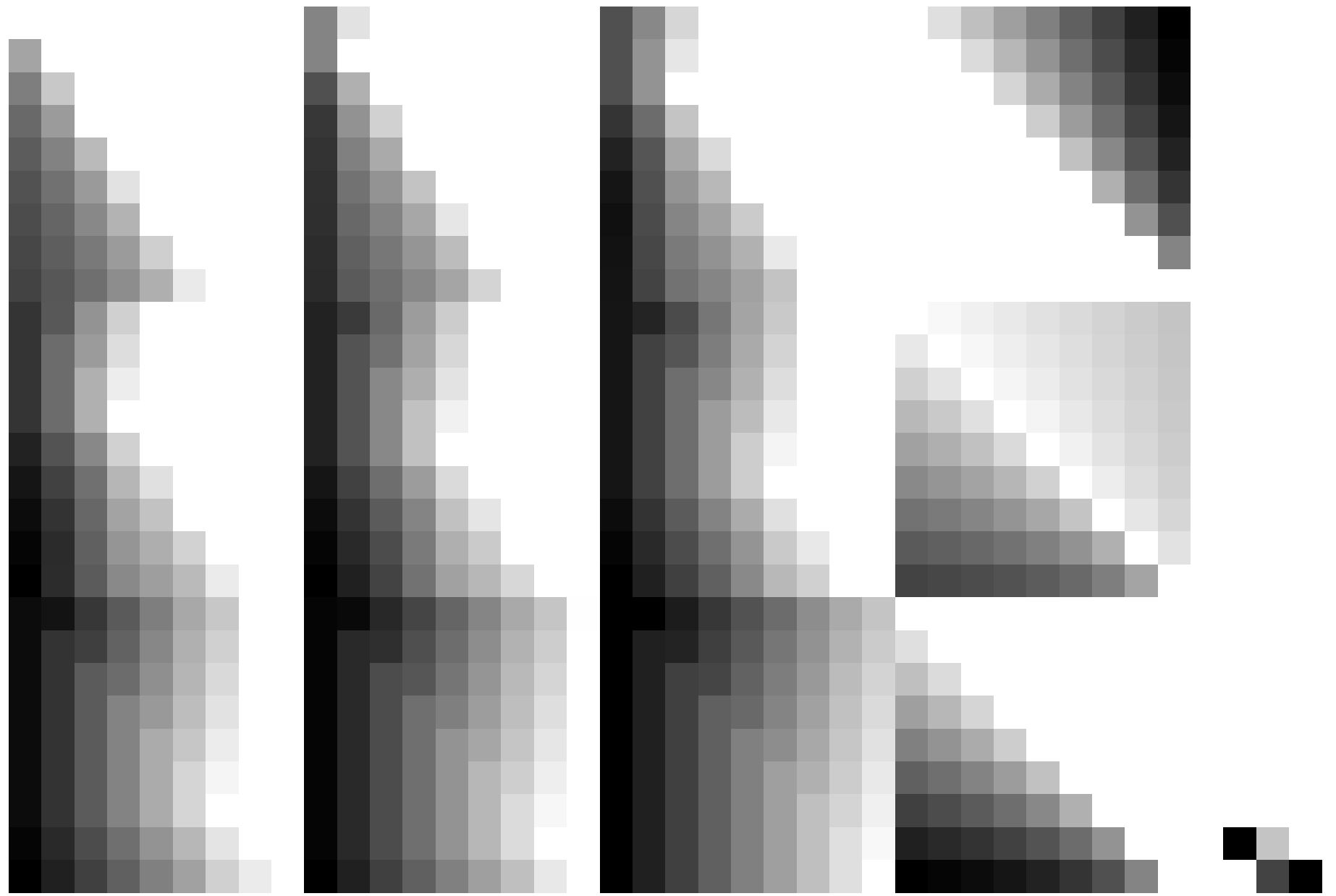
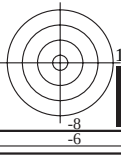
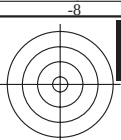
V

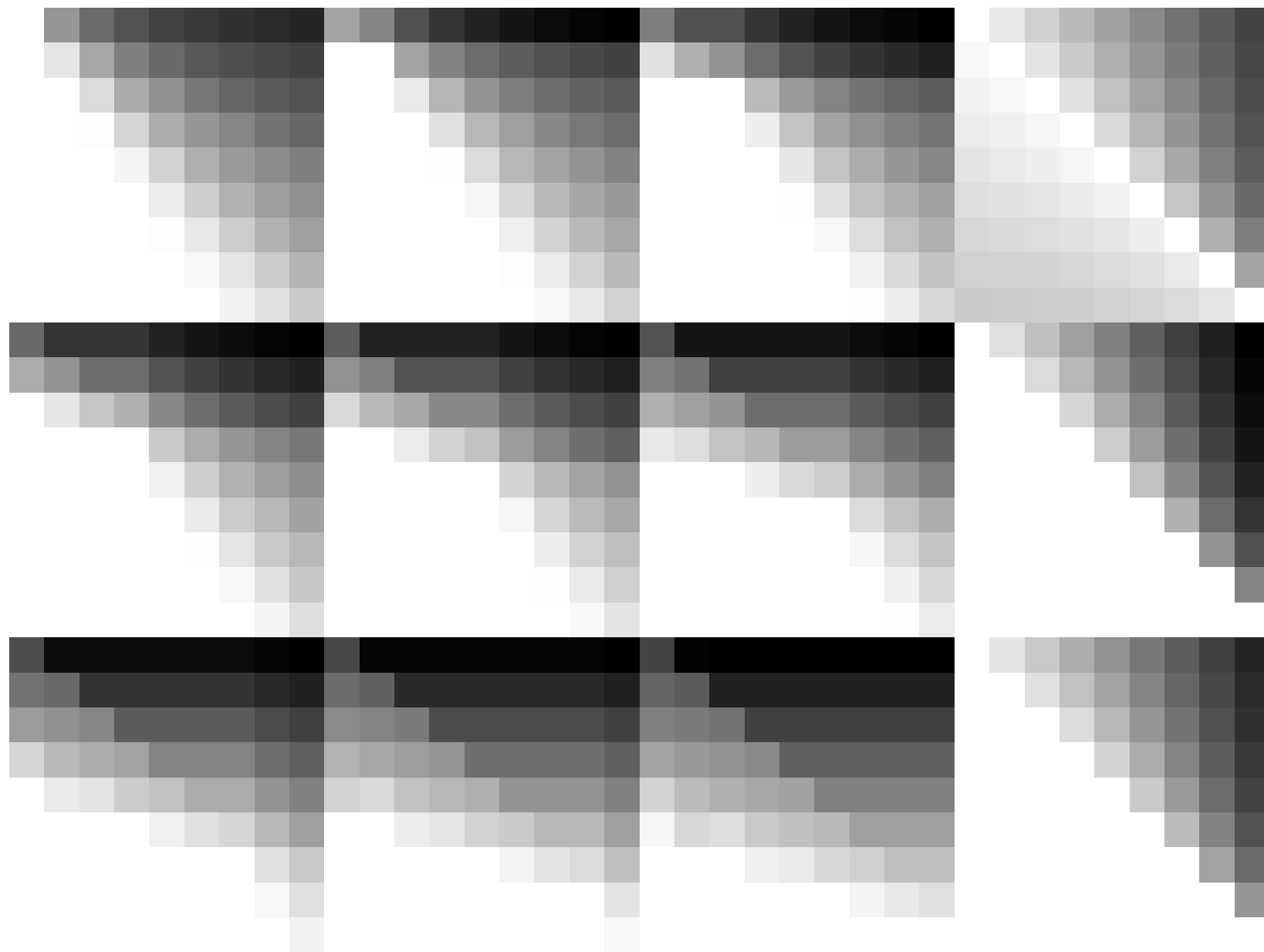
C





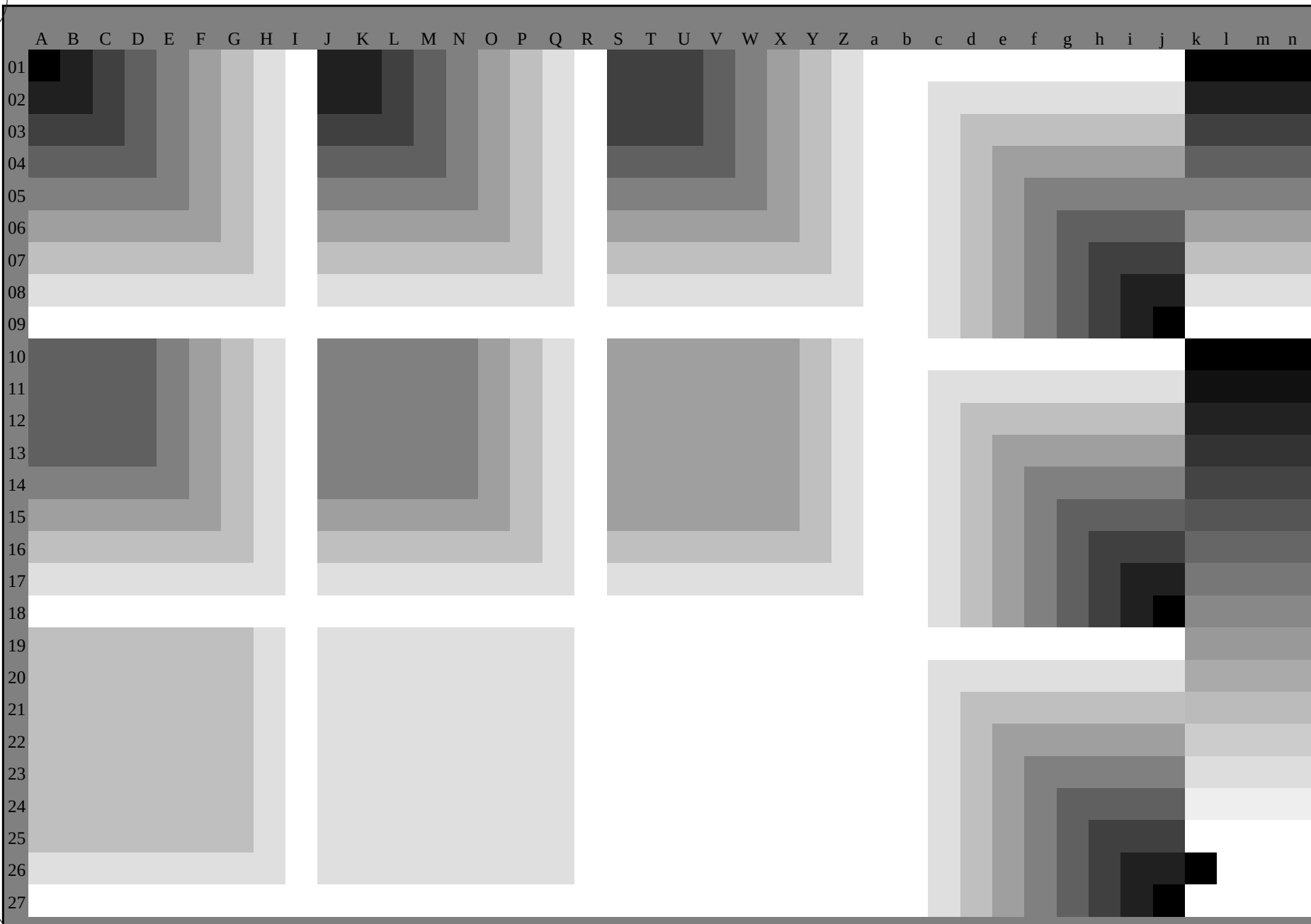
see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>





see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, separationcmykn6 (CMYK)
TUB material: code=rha4ta



SE190-71
TUB-test chart SE19; 1080 standard colours
Test chart according to DIN 33872, 3D=0, de=1, cmyk

input: *rgb/cmyk* -> *rgb_e*
output: transfer to *cmyk_e*



Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$ Yellow

$LCH^*_d = 91.5 \ 86.1 \ 100.5$

$LAB^*_d = 91.5 \ -15.8 \ 84.6$

$rgb^*_d = 1.0 \ 1.0 \ 0.0$

$L=G_d$ leaf-green

$LCH^*_d = 54.3 \ 74.3 \ 155.5$

$LAB^*_d = 54.3 \ -67.6 \ 30.8$

$rgb^*_d = 0.0 \ 1.0 \ 0.0$

$C=C_d$ cyan-blue

$LCH^*_d = 53.1 \ 52.5 \ 235.1$

$LAB^*_d = 53.1 \ -30.0 \ -43.1$

$rgb^*_d = 0.0 \ 1.0 \ 1.0$

$O=R_d$ orange-red

$LCH^*_d = 47.5 \ 68.6 \ 33.4$

$LAB^*_d = 47.5 \ 57.2 \ 37.8$

$rgb^*_d = 1.0 \ 0.0 \ 0.0$

$M=M_d$ magenta-red

$LCH^*_d = 48.1 \ 66.6 \ 348.9$

$LAB^*_d = 48.1 \ 65.4 \ -12.7$

$rgb^*_d = 1.0 \ 0.0 \ 1.0$

$V=B_d$ violet-blue

$LCH^*_d = 32.5 \ 47.7 \ 290.8$

$LAB^*_d = 32.5 \ 16.9 \ -44.6$

$rgb^*_d = 0.0 \ 0.0 \ 1.0$

Y_e yellow

$LCH^*_e = 83.6 \ 76.9 \ 92.3$

$LAB^*_e = 83.6 \ -3.1 \ 76.8$

$rgb^*_{de} = 1.0 \ 0.768 \ 0.0$

G_e green

$LCH^*_e = 53.8 \ 69.2 \ 162.2$

$LAB^*_e = 53.8 \ -65.9 \ 21.1$

$rgb^*_{de} = 0.0 \ 1.0 \ 0.146$

C_e blue-green

$LCH^*_e = 54.9 \ 48.4 \ 216.9$

$LAB^*_e = 54.9 \ -38.7 \ -29.1$

$rgb^*_{de} = 0.0 \ 1.0 \ 0.791$

B_e blue

$LCH^*_e = 37.3 \ 48.7 \ 271.7$

$LAB^*_e = 37.3 \ 1.4 \ -48.6$

$rgb^*_{de} = 0.0 \ 0.261 \ 1.0$

R_e red

$LCH^*_e = 47.5 \ 62.1 \ 25.4$

$LAB^*_e = 47.5 \ 56.0 \ 26.7$

$rgb^*_{de} = 1.0 \ 0.0 \ 0.263$

M_e blue-red

$LCH^*_e = 38.5 \ 54.7 \ 328.6$

$LAB^*_e = 38.5 \ 46.7 \ -28.5$

$rgb^*_{de} = 0.584 \ 0.0 \ 1.0$

Y_s yellow
standard CIELAB (a^*_s, b^*_s) chroma diagram

$LCH^*_s = 81.8 \ 76.2 \ 90.0$

$LAB^*_s = 81.8 \ 0.0 \ 76.2$

$rgb^*_{ds} = 1.0 \ 0.732 \ 0.0$

G_s green

$LCH^*_s = 57.6 \ 70.9 \ 150.0$

$LAB^*_s = 57.6 \ -61.4 \ 35.4$

$rgb^*_{ds} = 0.145 \ 1.0 \ 0.0$

R_s red

$LCH^*_s = 47.6 \ 65.0 \ 30.0$

$LAB^*_s = 47.6 \ 56.3 \ 32.5$

$rgb^*_{ds} = 1.0 \ 0.0 \ 0.157$

M_s blue-red

$LCH^*_s = 38.9 \ 55.3 \ 330.0$

$LAB^*_s = 38.9 \ 47.9 \ -27.6$

$rgb^*_{ds} = 0.612 \ 0.0 \ 1.0$

C_s blue-green

$LCH^*_s = 55.2 \ 48.1 \ 210.0$

$LAB^*_s = 55.2 \ -41.7 \ -24.0$

$rgb^*_{ds} = 0.0 \ 1.0 \ 0.694$

B_s blue

$LCH^*_s = 38.0 \ 48.9 \ 270.0$

$LAB^*_s = 38.0 \ 0.0 \ -48.9$

$rgb^*_{ds} = 0.0 \ 0.283 \ 1.0$

Notes to the CIELAB chroma diagrams (a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)

1. For the rgb^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.

2. For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_e the equation:

$$h_{ab,s} = \text{atan} [r^*_d \cos(30) + g^*_d \cos(150)] / [r^*_d \sin(30) + g^*_d \sin(150) + b^*_d \sin(270)] \quad (1)$$

3. For the 48 or 360 equally spaced standard hue angles $h_{ab,s}$ of the colours of maximum chroma use the seven hue angles of the 60 degree colours s : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:

$$h_{48ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (2)$$

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$

4. For the 48 or 360 elementary hue angles $h_{ab,e}$ of the colours of maximum chroma use the seven hue angles of the elementary colours e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:

$$h_{48ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (4)$$

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$

5. For any elementary hue angle $h_{ab,e}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.

6. The values rgb^*_{de} produce the output of the device-independent elementary hues

1-013630-L0

SE190-71

LAB*la0, YN=0%, XYZznw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 7/33

TUB-test chart SE19; 1080 standard colours

48 step hue circles; $rgb-LabCh^*$ tables, 3D=0, de=1, $cm\dot{y}k$

input: $rgb/cmyk \rightarrow rgb_e$

output: transfer to $cmyk_e$

1-013630-F0

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBM_6$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}	LAB^*_{ddx64M} (x=LabCh)	$rgb^*_{ddx361M}$	$LAB^*_{ddx361M}$ (x=LabCh)	$rgb^*_{dsx361M}$	$LAB^*_{dsx361M}$ (x=LabCh)	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$																								
33.4	30.0	25.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4
42.1	37.5	33.8	1.0	0.125	0.0	51.9	54.3	49.2	73.2	42.1	1.0	0.117	0.0	51.7	54.6	48.5	73.0	41	1.0	0.05	0.0	49.4	56.3	42.4	70.5	37	1.0	0.0	0.012	47.6	57.2	37.5	68.4	33
52.8	45.0	42.1	1.0	0.25	0.0	58.2	41.8	55.1	69.2	52.8	1.0	0.25	0.0	58.3	41.8	55.2	69.2	52	1.0	0.158	0.0	53.6	51.1	51.1	72.2	45	1.0	0.125	0.0	52.0	54.3	49.2	73.3	42
63.7	52.5	50.5	1.0	0.375	0.0	64.6	29.8	60.4	67.3	63.7	1.0	0.367	0.0	64.2	30.6	60.1	67.5	63	1.0	0.24	0.0	57.8	42.8	54.8	69.6	52	1.0	0.216	0.0	56.6	45.2	53.9	70.3	49
73.8	60.0	58.8	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73.8	1.0	0.5	0.0	70.5	19.2	66.3	69.0	73	1.0	0.332	0.0	62.5	34.0	58.9	68.0	60	1.0	0.32	0.0	61.8	35.2	58.4	68.2	58
80.7	67.5	67.2	1.0	0.625	0.0	74.9	11.4	70.7	71.6	80.7	1.0	0.617	0.0	74.6	12.0	70.5	71.5	80	1.0	0.416	0.0	66.6	26.5	62.5	67.9	67	1.0	0.412	0.0	66.4	26.9	62.3	67.9	66
91.5	75.0	75.6	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	91.5	1.0	0.75	0.0	83.0	-1.9	77.0	77.0	-268	1.0	0.521	0.0	71.3	18.0	67.1	69.5	75	1.0	0.532	0.0	71.6	17.3	67.5	69.7	75
96.8	82.5	83.9	1.0	0.875	0.0	87.6	-9.0	75.7	76.3	96.8	1.0	0.867	0.0	87.3	-8.5	75.9	76.4	96	1.0	0.639	0.0	75.8	10.1	71.6	72.3	82	1.0	0.655	0.0	76.9	8.4	72.5	73.0	83
100.5	90.0	92.3	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100.5	1.0	1.0	0.0	91.6	-15.7	84.7	86.2	100	1.0	0.732	0.0	81.8	0.0	76.3	76.3	90	1.0	0.769	0.0	83.7	-3.0	76.8	76.9	92
101.4	97.5	101.0	0.875	1.0	0.0	92.8	-18.1	89.4	91.2	101.4	0.883	1.0	0.0	92.7	-17.9	89.1	90.9	101	1.0	0.88	0.0	87.8	-9.3	76.2	76.7	97	1.0	0.996	0.0	91.5	-15.5	84.4	85.8	100
103.9	105.0	109.7	0.75	1.0	0.0	90.1	-21.3	86.0	88.6	103.9	0.75	1.0	0.0	90.1	-21.3	86.0	88.7	103	0.738	1.0	0.0	89.2	-22.5	84.4	87.4	105	0.684	1.0	0.0	84.7	-27.5	76.7	81.5	109
115.0	112.5	118.5	0.625	1.0	0.0	79.9	-31.7	67.9	75.0	115.0	0.633	1.0	0.0	80.6	-31.1	69.2	75.9	114	0.659	1.0	0.0	82.7	-29.4	73.0	78.8	112	0.595	1.0	0.0	77.8	-34.4	65.0	73.6	117
127.3	120.0	127.2	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127.3	0.5	1.0	0.0	71.0	-41.7	54.8	68.9	127	0.574	1.0	0.0	76.3	-36.2	62.8	72.6	120	0.501	1.0	0.0	71.0	-41.6	54.9	68.9	127
134.7	127.5	136.0	0.375	1.0	0.0	66.5	-47.5	48.0	67.6	134.7	0.383	1.0	0.0	66.9	-47.1	48.5	67.7	134	0.503	1.0	0.0	71.2	-41.5	55.2	69.1	127	0.366	1.0	0.0	66.2	-48.2	47.6	67.8	135
144.7	135.0	144.7	0.25	1.0	0.0	60.6	-57.2	40.4	70.1	144.7	0.25	1.0	0.0	60.6	-57.2	40.5	70.1	144	0.372	1.0	0.0	66.4	-47.8	47.9	67.7	135	0.25	1.0	0.0	60.6	-57.1	40.5	70.1	144
151.0	142.5	153.4	0.125	1.0	0.0	57.0	-62.2	34.4	71.1	151.0	0.133	1.0	0.0	57.3	-61.8	34.8	71.0	150	0.284	1.0	0.0	62.3	-54.6	42.7	69.4	142	0.073	1.0	0.0	55.9	-64.4	33.0	72.5	152
155.5	150.0	162.2	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	0.0	1.0	0.0	54.3	-67.6	30.8	74.4	155	0.146	1.0	0.0	57.6	-61.3	35.5	70.9	150	0.0	1.0	0.147	53.8	-65.9	21.1	69.3	162
160.8	157.5	169.0	0.0	1.0	0.125	53.8	-66.4	23.0	70.2	160.8	0.0	1.0	0.117	53.9	-66.4	23.5	70.6	160	0.0	1.0	0.035	54.2	-67.3	28.6	73.2	157	0.0	1.0	0.251	53.8	-63.0	12.7	64.4	168
168.5	165.0	175.9	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168.5	0.0	1.0	0.25	53.8	-63.1	12.8	64.4	168	0.0	1.0	0.192	53.8	-64.7	17.4	67.1	165	0.0	1.0	0.331	54.4	-59.3	4.2	59.5	175
179.9	172.5	182.7	0.0	1.0	0.375	54.7	-56.8	0.0	56.8	179.9	0.0	1.0	0.367	54.7	-57.2	0.8	57.3	179	0.0	1.0	0.288	54.1	-61.4	8.6	62.1	172	0.0	1.0	0.405	54.8	-55.6	-2.1	55.7	182
189.8	180.0	189.6	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189.8	0.0	1.0	0.5	55.0	-51.4	-8.8	52.2	189	0.0	1.0	0.375	54.8	-56.7	0.0	56.8	180	0.0	1.0	0.497	55.0	-51.5	-8.6	52.3	189
204.4	187.5	196.4	0.0	1.0	0.625	55.3	-44.1	-20.0	48.5	204.4	0.0	1.0	0.617	55.3	-44.6	-19.3	48.8	203	0.0	1.0	0.464	55.0	-53.0	-6.4	53.5	187	0.0	1.0	0.553	55.2	-48.6	-13.9	50.7	195
214.4	195.0	203.2	0.0	1.0	0.75	55.2	-39.5	-27.1	47.9	214.4	0.0	1.0	0.75	55.2	-39.4	-27.0	47.9	214	0.0	1.0	0.544	55.2	-49.1	-13.1	50.9	195	0.0	1.0	0.615	55.3	-44.7	-19.2	48.8	203
221.9	202.5	210.1	0.0	1.0	0.875	54.4	-36.7	-33.0	49.4	221.9	0.0	1.0	0.867	54.5	-36.9	-32.6	49.4	221	0.0	1.0	0.604	55.3	-45.5	-18.3	49.1	202	0.0	1.0	0.69	55.3	-41.8	-23.8	48.2	209
235.1	210.0	216.9	0.0	1.0	1.0	53.1	-30.0	-43.1	52.5	235.1	0.0	1.0	1.0	53.1	-29.9	-43.0	52.5	235	0.0	1.0	0.694	55.3	-41.6	-24.0	48.2	210	0.0	1.0	0.792	55.0	-38.6	-29.0	48.4	216
237.9	217.5	223.8	0.0	0.875	1.0	53.1	-27.9	-44.7	52.7	237.9	0.0	0.883	1.0	53.1	-28.0	-44.5	52.8	237	0.0	1.0	0.792	55.0	-38.6	-29.1	48.5	217	0.0	1.0	0.888	54.3	-36.1	-34.1	49.8	223
241.3	225.0	230.6	0.0	0.75	1.0	52.9	-25.9	-44.5	54.1	241.3	0.0	0.75	1.0	52.9	-25.8	-47.5	54.2	241	0.0	1.0	0.904	54.2	-35.4	-35.4	50.2	225	0.0	1.0	0.957	53.6	-32.5	-39.7	51.5	230
247.2	232.5	237.5	0.0	0.625	1.0	50.5	-20.8	-49.5	53.7	247.2	0.0	0.633	1.0	50.7	-21.1	-49.3	53.8	246	0.0	1.0	0.97	53.5	-31.8	-40.7	51.8	232	0.0	0.916	1.0	53.1	-28.6	-44.1	52.7	237
254.9	240.0	244.3	0.0	0.5	1.0	46.1	-13.3	-49.4	51.1	254.9	0.0	0.5	1.0	46.2	-13.2	-49.3	51.2	254	0.0	0.801	1.0	53.0	-26.7	-46.3	53.6	240	0.0	0.686	1.0	51.7	-23.3	-48.5	54.0	244
262.6	247.5	251.2	0.0	0.375	1.0	41.4	-6.3	-49.2	49.6	262.6	0.0	0.383	1.0	41.7	-6.7	-49.2	49.8	262	0.0	0.63	1.0	50.7	-20.9	-49.4	53.8	247	0.0	0.568	1.0	48.6	-17.2	-49.5	52.6	250
272.6	255.0	258.0	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272.6	0.0	0.25	1.0	36.9	2.2	-48.5	48.6	272	0.0	0.499	1.0	46.1	-13.1	-49.3	51.2	255	0.0	0.449	1.0	44.2	-10.4	-49.4	50.6	258
281.4	262.5	264.8	0.0	0.125	1.0	35.0	9.4	-46.3	47.3	281.4	0.0	0.133	1.0	35.2	8.9	-46.5	47.4	280	0.0	0.386	1.0	41.8	-6.8	-49.2	49.8	262	0.0	0.353	1.0	40.6	-4.7	-49.2	49.5	264
290.8	270.0	271.7	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8	0.0	0.0	1.0	32.6	16.9	-44.5	47.7	290	0.0	0.283	1.0	38.1	0.0	-48.8	48.9	270	0.0	0.261	1.0	37.3	1.5			

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}	$LAB^*_{ddx64M}(x=LabCh)$		$rgb^*_{dex361M}$	$LAB^*_{dex361M}$
33.4	30.0	25.4	1.0 0.0 0.0	47.5 57.2 37.8 68.6 33.4	33.4	1.0 0.0 0.263 47.6	56.1 26.7 62.1 25
42.1	37.5	33.8	1.0 0.125 0.0	51.9 54.3 49.2 73.2 42.1	42.1	1.0 0.0 0.012 47.6	57.2 37.5 68.4 33
52.8	45.0	42.1	1.0 0.25 0.0	58.2 41.8 55.1 69.2 52.8	52.8	1.0 0.125 0.0	52.0 54.3 49.2 73.3 42
63.7	52.5	50.5	1.0 0.375 0.0	64.6 29.8 60.4 67.3 63.7	63.7	1.0 0.216 0.0	56.6 45.2 53.9 70.3 49
73.8	60.0	58.8	1.0 0.5 0.0	70.5 19.2 66.2 69.0 73.8	73.8	1.0 0.32 0.0	61.8 35.2 58.4 68.2 58
80.7	67.5	67.2	1.0 0.625 0.0	74.9 11.4 70.7 71.6 80.7	80.7	1.0 0.412 0.0	66.4 26.9 62.3 67.9 66
91.5	75.0	75.6	1.0 0.75 0.0	82.9 -2.0 76.9 77.0 91.5	91.5	1.0 0.532 0.0	71.6 17.3 67.5 69.7 75
96.8	82.5	83.9	1.0 0.875 0.0	87.6 -9.0 75.7 76.3 96.8	96.8	1.0 0.655 0.0	76.9 8.4 72.5 73.0 83
100.5	90.0	92.3	1.0 1.0 0.0	91.5 -15.8 84.6 86.1 100.5	100.5	1.0 0.769 0.0	83.7 -3.0 76.8 76.9 92
101.4	97.5	101.0	0.875 1.0 0.0	92.8 -18.1 89.4 91.2 101.4	101.4	1.0 0.996 0.0	91.5 -15.5 84.4 85.8 100
103.9	105.0	109.7	0.75 1.0 0.0	90.1 -21.3 86.0 88.6 103.9	103.9	0.684 1.0 0.0	84.7 -27.5 76.7 81.5 109
115.0	112.5	118.5	0.625 1.0 0.0	79.9 -31.7 67.9 75.0 115.0	115.0	0.595 1.0 0.0	77.8 -34.4 65.0 73.6 117
127.3	120.0	127.2	0.5 1.0 0.0	70.9 -41.7 54.8 68.9 127.3	127.3	0.501 1.0 0.0	71.0 -41.6 54.9 68.9 127
134.7	127.5	136.0	0.375 1.0 0.0	66.5 -47.5 48.0 67.6 134.7	134.7	0.366 1.0 0.0	66.2 -48.2 47.6 67.8 135
144.7	135.0	144.7	0.25 1.0 0.0	60.6 -57.2 40.4 70.1 144.7	144.7	0.25 1.0 0.0	60.6 -57.1 40.5 70.1 144
151.0	142.5	153.4	0.125 1.0 0.0	57.0 -62.2 34.4 71.1 151.0	151.0	0.073 1.0 0.0	55.9 -64.4 33.0 72.5 152
155.5	150.0	162.2	0.0 1.0 0.0	54.3 -67.6 30.8 74.3 155.5	155.5	0.0 1.0 0.147 53.8	-65.9 21.1 69.3 162
160.8	157.5	169.0	0.0 1.0 0.125 53.8	-66.4 23.0 70.2 160.8	160.8	0.0 1.0 0.251 53.8	-63.0 12.7 64.4 168
168.5	165.0	175.9	0.0 1.0 0.25 53.7	-63.1 12.8 64.4 168.5	168.5	0.0 1.0 0.331 54.4	-59.3 4.2 59.5 175
179.9	172.5	182.7	0.0 1.0 0.375 54.7	-56.8 0.0 56.8 179.9	179.9	0.0 1.0 0.405 54.8	-55.6 -2.1 55.7 182
189.8	180.0	189.6	0.0 1.0 0.5 55.0	-51.4 -8.9 52.2 189.8	189.8	0.0 1.0 0.497 55.0	-51.5 -8.6 52.3 189
204.4	187.5	196.4	0.0 1.0 0.625 55.3	-44.1 -20.0 48.5 204.4	204.4	0.0 1.0 0.553 55.2	-48.6 -13.9 50.7 195
214.4	195.0	203.2	0.0 1.0 0.75 55.2	-39.5 -27.1 47.9 214.4	214.4	0.0 1.0 0.615 55.3	-44.7 -19.2 48.8 203
221.9	202.5	210.1	0.0 1.0 0.875 54.4	-36.7 -33.0 49.4 221.9	221.9	0.0 1.0 0.69 55.3	-41.8 -23.8 48.2 209
235.1	210.0	216.9	0.0 1.0 1.0 53.1	-30.0 -43.1 52.5 235.1	235.1	0.0 1.0 0.792 55.0	-38.6 -29.0 48.4 216
237.9	217.5	223.8	0.0 0.875 1.0 53.1	-27.9 -44.7 52.7 237.9	237.9	0.0 1.0 0.888 54.3	-36.1 -34.1 49.8 223
241.3	225.0	230.6	0.0 0.75 1.0 52.9	-25.9 -47.5 54.1 241.3	241.3	0.0 1.0 0.957 53.6	-32.5 -39.7 51.5 230
247.2	232.5	237.5	0.0 0.625 1.0 50.5	-20.8 -49.5 53.7 247.2	247.2	0.0 0.916 1.0 53.1	-28.6 -44.1 52.7 237
254.9	240.0	244.3	0.0 0.5 1.0 46.1	-13.3 -49.4 51.1 254.9	254.9	0.0 0.686 1.0 51.7	-23.3 -48.5 54.0 244
262.6	247.5	251.2	0.0 0.375 1.0 41.4	-6.3 -49.2 49.6 262.6	262.6	0.0 0.568 1.0 48.6	-17.2 -49.5 52.6 250
272.6	255.0	258.0	0.0 0.25 1.0 36.8	2.2 -48.5 48.6 272.6	272.6	0.0 0.449 1.0 44.2	-10.4 -49.4 50.6 258
281.4	262.5	264.8	0.0 0.125 1.0 35.0	9.4 -46.3 47.3 281.4	281.4	0.0 0.353 1.0 40.6	-4.7 -49.2 49.5 264
290.8	270.0	271.7	0.0 0.0 1.0 32.5	16.9 -44.6 47.7 290.8	290.8	0.0 0.261 1.0 37.3	1.5 -48.6 48.7 271
299.2	277.5	278.8	0.125 0.0 1.0 31.6	23.6 -42.2 48.4 299.2	299.2	0.0 0.169 1.0 35.7	7.0 -47.2 47.8 278
307.8	285.0	285.9	0.25 0.0 1.0 31.0	30.5 -39.3 49.8 307.8	307.8	0.0 0.065 1.0 33.9	13.1 -45.6 47.5 285
317.5	292.5	293.0	0.375 0.0 1.0 34.2	38.2 -35.0 51.8 317.5	317.5	0.026 0.0 1.0 32.4	18.4 -44.1 47.9 292
324.4	300.0	300.1	0.5 0.0 1.0 37.2	43.1 -30.8 53.0 324.4	324.4	0.139 0.0 1.0 31.5	24.4 -41.9 48.6 300
330.6	307.5	307.2	0.625 0.0 1.0 39.1	48.4 -27.2 55.6 330.6	330.6	0.235 0.0 1.0 31.1	29.8 -39.7 49.7 306
338.7	315.0	314.3	0.75 0.0 1.0 41.8	55.1 -21.4 59.1 338.7	338.7	0.335 0.0 1.0 33.2	35.8 -36.5 51.2 314
343.9	322.5	321.4	0.875 0.0 1.0 45.6	60.1 -17.3 62.6 343.9	343.9	0.439 0.0 1.0 35.8	40.8 -32.9 52.5 321
348.9	330.0	328.6	1.0 0.0 1.0 48.1	65.4 -12.7 66.6 348.9	348.9	0.584 0.0 1.0 38.5	46.8 -28.4 54.8 328
350.7	337.5	335.7	1.0 0.0 0.875 49.5	66.1 -10.7 67.0 350.7	350.7	0.696 0.0 1.0 40.7	52.3 -24.0 57.6 335
354.2	345.0	342.8	1.0 0.0 0.75 49.3	64.5 -6.5 64.8 354.2	354.2	0.848 0.0 1.0 44.9	59.1 -18.2 61.9 342
361.9	352.5	349.9	1.0 0.0 0.625 48.0	61.8 2.1 61.8 361.9	361.9	1.0 0.0 0.964 48.6	65.6 -12.1 66.8 349
370.0	360.0	357.0	1.0 0.0 0.5 47.8	58.9 10.4 59.9 370.0	370.0	1.0 0.0 0.828 49.5	65.6 -9.0 66.2 352
378.9	367.5	364.1	1.0 0.0 0.375 47.4	56.8 19.5 60.0 378.9	378.9	1.0 0.0 0.659 48.4	62.7 -0.1 62.7 359
386.2	375.0	371.2	1.0 0.0 0.25 47.5	55.9 27.5 62.3 386.2	386.2	1.0 0.0 0.519 47.8	59.5 9.2 60.2 368
391.3	382.5	378.3	1.0 0.0 0.125 47.6	56.3 34.2 65.9 391.3	391.3	1.0 0.0 0.408 47.5	57.6 17.1 60.0 376
393.4	390.0	385.4	1.0 0.0 0.0 47.5	57.2 37.8 68.6 393.4	393.4	1.0 0.0 0.263 47.6	56.1 26.7 62.1 385



TUB registration: 20130201-SE19/SE19L0NP.PDF /PS
application for measurement of laser printer output, separationcmyn6 (CMYK)

TUB material: code=rh4ta

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}(x=LabCh)$	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	R_s	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	R_e	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
33	30	25	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33	1.0	0.0	0.0	0.0	0.0
34	31	26	1.0	0.016	0.0	48.1	56.9	39.3	69.2	34	1.0	0.0	0.017	0.0	0.0
35	32	27	1.0	0.033	0.0	48.7	56.6	40.8	69.8	35	1.0	0.0	0.033	0.0	0.0
36	33	28	1.0	0.05	0.0	49.3	56.3	42.3	70.4	36	1.0	0.0	0.05	0.0	0.0
38	34	29	1.0	0.066	0.0	49.9	55.9	43.9	71.1	38	1.0	0.0	0.067	0.0	0.0
39	35	31	1.0	0.083	0.0	50.5	55.5	45.4	71.7	39	1.0	0.0	0.083	0.0	0.0
40	36	32	1.0	0.1	0.0	51.0	55.0	46.9	72.3	40	1.0	0.0	0.1	0.0	0.0
41	37	33	1.0	0.116	0.0	51.6	54.5	48.4	72.9	41	1.0	0.0	0.117	0.0	0.0
42	38	34	1.0	0.133	0.0	52.3	53.4	49.7	73.0	42	1.0	0.0	0.133	0.0	0.0
44	39	35	1.0	0.15	0.0	53.2	51.8	50.6	72.4	44	1.0	0.0	0.15	0.0	0.0
45	40	36	1.0	0.166	0.0	54.0	50.2	51.5	71.9	45	1.0	0.0	0.167	0.0	0.0
47	41	37	1.0	0.183	0.0	54.9	48.5	52.3	71.4	47	1.0	0.0	0.183	0.0	0.0
48	42	38	1.0	0.2	0.0	55.7	46.8	53.1	70.8	48	1.0	0.0	0.2	0.0	0.0
50	43	39	1.0	0.216	0.0	56.6	45.2	53.8	70.3	50	1.0	0.0	0.217	0.0	0.0
51	44	41	1.0	0.233	0.0	57.4	43.5	54.5	69.7	51	1.0	0.0	0.233	0.0	0.0
52	45	42	1.0	0.25	0.0	58.2	41.8	55.1	69.2	52	1.0	0.0	0.25	0.0	0.0
54	46	43	1.0	0.266	0.0	59.1	40.2	56.0	69.0	54	1.0	0.0	0.267	0.0	0.0
55	47	44	1.0	0.283	0.0	59.9	38.6	56.8	68.7	55	1.0	0.0	0.283	0.0	0.0
57	48	45	1.0	0.3	0.0	60.8	37.1	57.5	68.5	57	1.0	0.0	0.3	0.0	0.0
58	49	46	1.0	0.316	0.0	61.6	35.5	58.2	68.2	58	1.0	0.0	0.317	0.0	0.0
60	50	47	1.0	0.333	0.0	62.5	33.9	58.9	68.0	60	1.0	0.0	0.333	0.0	0.0
61	51	48	1.0	0.35	0.0	63.3	32.2	59.5	67.7	61	1.0	0.0	0.35	0.0	0.0
63	52	49	1.0	0.366	0.0	64.2	30.6	60.1	67.5	63	1.0	0.0	0.367	0.0	0.0
64	53	51	1.0	0.383	0.0	65.0	29.1	60.8	67.4	64	1.0	0.0	0.383	0.0	0.0
65	54	52	1.0	0.4	0.0	65.8	27.8	61.7	67.7	65	1.0	0.0	0.4	0.0	0.0
67	55	53	1.0	0.416	0.0	66.6	26.4	62.5	67.9	67	1.0	0.0	0.417	0.0	0.0
68	56	54	1.0	0.433	0.0	67.3	25.0	63.3	68.1	68	1.0	0.0	0.433	0.0	0.0
69	57	55	1.0	0.45	0.0	68.1	23.6	64.1	68.3	69	1.0	0.0	0.45	0.0	0.0
71	58	56	1.0	0.466	0.0	68.9	22.1	64.8	68.5	71	1.0	0.0	0.467	0.0	0.0
72	59	57	1.0	0.483	0.0	69.7	20.7	65.6	68.8	72	1.0	0.0	0.483	0.0	0.0
73	60	58	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73	1.0	0.0	0.5	0.0	0.0
74	61	60	1.0	0.516	0.0	71.0	18.2	66.9	69.3	74	1.0	0.0	0.517	0.0	0.0
75	62	61	1.0	0.533	0.0	71.6	17.2	67.5	69.7	75	1.0	0.0	0.533	0.0	0.0
76	63	62	1.0	0.55	0.0	72.2	16.2	68.1	70.0	76	1.0	0.0	0.55	0.0	0.0
77	64	63	1.0	0.566	0.0	72.8	15.1	68.7	70.4	77	1.0	0.0	0.567	0.0	0.0
78	65	64	1.0	0.583	0.0	73.4	14.1	69.3	70.7	78	1.0	0.0	0.583	0.0	0.0
79	66	65	1.0	0.6	0.0	74.0	13.0	69.9	71.1	79	1.0	0.0	0.6	0.0	0.0
80	67	66	1.0	0.616	0.0	74.6	12.0	70.4	71.4	80	1.0	0.0	0.617	0.0	0.0
81	68	67	1.0	0.633	0.0	75.4	10.6	71.2	72.0	81	1.0	0.0	0.633	0.0	0.0
82	69	68	1.0	0.65	0.0	76.5	8.9	72.1	72.7	82	1.0	0.0	0.65	0.0	0.0
84	70	70	1.0	0.666	0.0	77.5	7.2	73.0	73.4	84	1.0	0.0	0.667	0.0	0.0
85	71	71	1.0	0.683	0.0	78.6	5.4	73.9	74.1	85	1.0	0.0	0.683	0.0	0.0
87	72	72	1.0	0.7	0.0	79.7	3.6	74.7	74.8	87	1.0	0.0	0.7	0.0	0.0
88	73	73	1.0	0.716	0.0	80.8	1.7	75.5	75.5	88	1.0	0.0	0.717	0.0	0.0
-269	74	74	1.0	0.733	0.0	81.8	-0.1	76.3	76.3	-269	1.0	0.0	0.733	0.0	0.0
-268	75	75	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	-268	1.0	0.0	0.75	0.0	0.0

1-013930-L0 SE190-71 LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 10/33

TUB-test chart SE19; 1080 standard colours
48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=1, $cmYk$

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_e$

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, separationcmyn6 (CMYK)
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$																	
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dxd361Mi}(x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$rgb^*_{dex361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{ds361Mi}$	$rgb^*_{de361Mi}$	$rgb^*_{dex361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{ds361Mi}$	$rgb^*_{de361Mi}$	$rgb^*_{dex361Mi}(x=LabCh)$
-268	75	75	1.0	0.75 0.0	82.9	-2.0 76.9 77.0	-268	R_d									
92	76	76	1.0	0.766 0.0	83.5	-2.9 76.8 76.9	92										
92	77	77	1.0	0.783 0.0	84.2	-3.9 76.7 76.8	92										
93	78	78	1.0	0.8 0.0	84.8	-4.8 76.5 76.7	93										
94	79	80	1.0	0.816 0.0	85.4	-5.8 76.4 76.6	94										
95	80	81	1.0	0.833 0.0	86.0	-6.7 76.2 76.5	95										
95	81	82	1.0	0.85 0.0	86.6	-7.6 76.0 76.4	95										
96	82	83	1.0	0.866 0.0	87.3	-8.6 75.8 76.3	96										
97	83	84	1.0	0.883 0.0	87.8	-9.4 76.3 76.9	97										
97	84	85	1.0	0.9 0.0	88.4	-10.3 77.6 78.2	97										
98	85	86	1.0	0.916 0.0	88.9	-11.2 78.8 79.6	98										
98	86	87	1.0	0.933 0.0	89.4	-12.0 80.0 80.9	98										
99	87	88	1.0	0.95 0.0	89.9	-12.9 81.1 82.2	99										
99	88	90	1.0	0.966 0.0	90.5	-13.9 82.3 83.5	99										
100	89	91	1.0	0.983 0.0	91.0	-14.8 83.5 84.8	100										
100	90	92	1.0	1.0 0.0	91.5	-15.8 84.6 86.1	100	Y_d									
100	91	93	0.983	1.0 0.0	91.7	-16.1 85.3 86.8	100										
100	92	94	0.966	1.0 0.0	91.9	-16.4 85.9 87.5	100										
100	93	95	0.95	1.0 0.0	92.0	-16.7 86.5 88.2	100										
101	94	96	0.933	1.0 0.0	92.2	-17.0 87.2 88.8	101										
101	95	98	0.916	1.0 0.0	92.4	-17.3 87.8 89.5	101										
101	96	99	0.9	1.0 0.0	92.5	-17.6 88.4 90.2	101										
101	97	100	0.883	1.0 0.0	92.7	-18.0 89.1 90.9	101										
101	98	101	0.866	1.0 0.0	92.6	-18.3 89.2 91.0	101										
101	99	102	0.85	1.0 0.0	92.2	-18.8 88.7 90.7	101										
102	100	103	0.833	1.0 0.0	91.9	-19.2 88.3 90.3	102										
102	101	105	0.816	1.0 0.0	91.5	-19.6 87.8 90.0	102										
102	102	106	0.8	1.0 0.0	91.1	-20.1 87.4 89.7	102										
103	103	107	0.783	1.0 0.0	90.8	-20.5 86.9 89.3	103										
103	104	108	0.766	1.0 0.0	90.4	-20.9 86.5 89.0	103										
103	105	109	0.75	1.0 0.0	90.1	-21.3 86.0 88.6	103										
105	106	110	0.733	1.0 0.0	88.7	-23.1 83.7 86.8	105										
106	107	112	0.716	1.0 0.0	87.3	-24.7 81.3 85.0	106										
108	108	113	0.7	1.0 0.0	86.0	-26.2 78.9 83.2	108										
109	109	114	0.683	1.0 0.0	84.6	-27.6 76.5 81.3	109										
111	110	115	0.666	1.0 0.0	83.3	-28.9 74.1 79.5	111										
112	111	116	0.65	1.0 0.0	81.9	-30.1 71.6 77.7	112										
114	112	117	0.633	1.0 0.0	80.5	-31.2 69.2 75.9	114										
115	113	119	0.616	1.0 0.0	79.3	-32.5 67.1 74.6	115										
117	114	120	0.6	1.0 0.0	78.1	-34.0 65.4 73.8	117										
119	115	121	0.583	1.0 0.0	76.9	-35.5 63.7 72.9	119										
120	116	122	0.566	1.0 0.0	75.7	-36.9 62.0 72.1	120										
122	117	123	0.55	1.0 0.0	74.5	-38.2 60.2 71.3	122										
124	118	124	0.533	1.0 0.0	73.3	-39.4 58.4 70.5	124										
125	119	126	0.516	1.0 0.0	72.1	-40.6 56.6 69.7	125										
127	120	127	0.5	1.0 0.0	70.9	-41.7 54.8 68.9	127										

1-0131030-L0

SE190-71

LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 11/33

TUB-test chart SE19; 1080 standard colours
48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=1, $cmYk$

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_e$

1-0131030-F0

TUB registration: 20130201-SE19/SE19L0NP.PDF /PS
application for measurement of laser printer output, separationcmyn6 (CMYK)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours RYGBM_e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}(x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
127	120	127	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127	0.5	1.0	0.0
128	121	128	0.483	1.0	0.0	70.4	-42.6	53.9	68.7	128	0.483	1.0	0.0
129	122	129	0.466	1.0	0.0	69.8	-43.4	53.0	68.5	129	0.466	1.0	0.0
130	123	130	0.45	1.0	0.0	69.2	-44.2	52.1	68.3	130	0.45	1.0	0.0
131	124	131	0.433	1.0	0.0	68.6	-45.0	51.2	68.2	131	0.433	1.0	0.0
132	125	133	0.416	1.0	0.0	68.0	-45.7	50.3	68.0	132	0.416	1.0	0.0
133	126	134	0.4	1.0	0.0	67.4	-46.5	49.4	67.8	133	0.4	1.0	0.0
134	127	135	0.383	1.0	0.0	66.8	-47.2	48.5	67.7	134	0.383	1.0	0.0
135	128	136	0.366	1.0	0.0	66.1	-48.2	47.5	67.7	135	0.366	1.0	0.0
136	129	137	0.35	1.0	0.0	65.4	-49.5	46.6	68.1	136	0.35	1.0	0.0
138	130	138	0.333	1.0	0.0	64.6	-50.9	45.7	68.4	138	0.333	1.0	0.0
139	131	140	0.316	1.0	0.0	63.8	-52.2	44.7	68.7	139	0.316	1.0	0.0
140	132	141	0.3	1.0	0.0	63.0	-53.5	43.7	69.1	140	0.3	1.0	0.0
142	133	142	0.283	1.0	0.0	62.2	-54.7	42.6	69.4	142	0.283	1.0	0.0
143	134	143	0.266	1.0	0.0	61.4	-56.0	41.5	69.7	143	0.266	1.0	0.0
144	135	144	0.25	1.0	0.0	60.6	-57.2	40.4	70.1	144	0.25	1.0	0.0
145	136	145	0.233	1.0	0.0	60.1	-57.9	39.6	70.2	145	0.233	1.0	0.0
146	137	147	0.216	1.0	0.0	59.6	-58.6	38.9	70.3	146	0.216	1.0	0.0
147	138	148	0.2	1.0	0.0	59.1	-59.3	38.1	70.5	147	0.2	1.0	0.0
148	139	149	0.183	1.0	0.0	58.7	-59.9	37.3	70.6	148	0.183	1.0	0.0
148	140	150	0.166	1.0	0.0	58.2	-60.6	36.4	70.7	148	0.166	1.0	0.0
149	141	151	0.15	1.0	0.0	57.7	-61.2	35.6	70.9	149	0.15	1.0	0.0
150	142	152	0.133	1.0	0.0	57.2	-61.9	34.8	71.0	150	0.133	1.0	0.0
151	143	154	0.116	1.0	0.0	56.8	-62.5	34.1	71.3	151	0.116	1.0	0.0
151	144	155	0.1	1.0	0.0	56.4	-63.3	33.7	71.7	151	0.1	1.0	0.0
152	145	156	0.083	1.0	0.0	56.1	-64.0	33.2	72.1	152	0.083	1.0	0.0
153	146	157	0.066	1.0	0.0	55.7	-64.7	32.8	72.6	153	0.066	1.0	0.0
153	147	158	0.049	1.0	0.0	55.4	-65.5	32.3	73.0	153	0.049	1.0	0.0
154	148	159	0.033	1.0	0.0	55.0	-66.2	31.8	73.5	154	0.033	1.0	0.0
154	149	161	0.016	1.0	0.0	54.7	-66.9	31.3	73.9	154	0.016	1.0	0.0
155	150	162	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155	0.0	1.0	0.0
156	151	163	0.0	1.0	0.016	54.2	-67.5	29.7	73.8	156	0.0	1.0	0.017
156	152	164	0.0	1.0	0.033	54.2	-67.4	28.6	73.2	156	0.0	1.0	0.033
157	153	164	0.0	1.0	0.05	54.1	-67.2	27.6	72.7	157	0.0	1.0	0.05
158	154	165	0.0	1.0	0.066	54.0	-67.1	26.6	72.1	158	0.0	1.0	0.067
159	155	166	0.0	1.0	0.083	53.9	-66.9	25.5	71.6	159	0.0	1.0	0.083
159	156	167	0.0	1.0	0.1	53.9	-66.7	24.5	71.1	159	0.0	1.0	0.1
160	157	168	0.0	1.0	0.116	53.8	-66.5	23.5	70.5	160	0.0	1.0	0.117
161	158	169	0.0	1.0	0.133	53.8	-66.2	22.3	69.9	161	0.0	1.0	0.133
162	159	170	0.0	1.0	0.15	53.8	-65.8	20.8	69.1	162	0.0	1.0	0.15
163	160	171	0.0	1.0	0.166	53.8	-65.5	19.4	68.3	163	0.0	1.0	0.167
164	161	172	0.0	1.0	0.183	53.8	-65.0	18.1	67.5	164	0.0	1.0	0.183
165	162	173	0.0	1.0	0.2	53.8	-64.6	16.7	66.7	165	0.0	1.0	0.2
166	163	174	0.0	1.0	0.216	53.7	-64.1	15.4	66.0	166	0.0	1.0	0.217
167	164	175	0.0	1.0	0.233	53.7	-63.6	14.1	65.2	167	0.0	1.0	0.233
168	165	175	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168	0.0	1.0	0.25

1-0131130-L0

SE190-71

LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 12/33

TUB-test chart SE19; 1080 standard colours

48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=1, $cmYk$ input: $rgb/cmyk \rightarrow rgb_e$ output: transfer to $cmyk_e$

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dd361Mi}(x=LabCh)$	C_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	C_s	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$		
235	210	216	0.0	1.0	1.0	53.1	-30.0 -43.1 52.5	235	0.0	1.0	0.694 55.3	-41.6 -24.0 48.2	210	0.0	1.0	0.983 1.0	
235	211	217	0.0	0.983 1.0	53.1	-29.7 -43.3 52.5	235	0.0	1.0	0.707 55.3	-41.2 -24.7 48.1	211	0.0	0.983 1.0	0.0	1.0	0.807 54.9
235	212	218	0.0	0.966 1.0	53.1	-29.4 -43.5 52.5	235	0.0	1.0	0.719 55.3	-40.7 -25.4 48.1	212	0.0	0.967 1.0	0.0	1.0	0.822 54.8
236	213	219	0.0	0.95 1.0	53.1	-29.2 -43.7 52.6	236	0.0	1.0	0.732 55.3	-40.2 -26.1 48.0	213	0.0	0.95 1.0	0.0	1.0	0.837 54.7
236	214	220	0.0	0.933 1.0	53.1	-28.9 -43.9 52.6	236	0.0	1.0	0.744 55.2	-39.7 -26.7 48.0	214	0.0	0.933 1.0	0.0	1.0	0.853 54.6
237	215	221	0.0	0.916 1.0	53.1	-28.6 -44.2 52.6	237	0.0	1.0	0.759 55.2	-39.3 -27.5 48.1	215	0.0	0.917 1.0	0.0	1.0	0.868 54.5
237	216	222	0.0	0.9 1.0	53.1	-28.3 -44.4 52.7	237	0.0	1.0	0.775 55.1	-38.9 -28.3 48.3	216	0.0	0.9 1.0	0.0	1.0	0.88 54.4
237	217	223	0.0	0.883 1.0	53.1	-28.1 -44.6 52.7	237	0.0	1.0	0.792 55.0	-38.6 -29.1 48.5	217	0.0	0.883 1.0	0.0	1.0	0.888 54.3
238	218	224	0.0	0.866 1.0	53.0	-27.8 -44.9 52.8	238	0.0	1.0	0.809 54.9	-38.2 -29.9 48.7	218	0.0	0.867 1.0	0.0	1.0	0.897 54.2
238	219	225	0.0	0.85 1.0	53.0	-27.5 -45.3 53.0	238	0.0	1.0	0.825 54.8	-37.9 -30.6 48.9	219	0.0	0.85 1.0	0.0	1.0	0.906 54.1
239	220	226	0.0	0.833 1.0	53.0	-27.3 -45.6 53.2	239	0.0	1.0	0.842 54.7	-37.5 -31.4 49.1	220	0.0	0.833 1.0	0.0	1.0	0.914 54.1
239	221	227	0.0	0.816 1.0	53.0	-27.0 -46.0 53.4	239	0.0	1.0	0.859 54.6	-37.1 -32.2 49.3	221	0.0	0.817 1.0	0.0	1.0	0.923 54.0
240	222	227	0.0	0.8 1.0	52.9	-26.7 -46.4 53.6	240	0.0	1.0	0.875 54.5	-36.7 -33.0 49.5	222	0.0	0.8 1.0	0.0	1.0	0.932 53.9
240	223	228	0.0	0.783 1.0	52.9	-26.5 -46.8 53.8	240	0.0	1.0	0.885 54.4	-36.2 -33.8 49.7	223	0.0	0.783 1.0	0.0	1.0	0.94 53.8
240	224	229	0.0	0.766 1.0	52.9	-26.2 -47.2 53.9	240	0.0	1.0	0.894 54.3	-35.8 -34.6 49.9	224	0.0	0.767 1.0	0.0	1.0	0.949 53.7
241	225	230	0.0	0.75 1.0	52.9	-25.9 -47.5 54.1	241	0.0	1.0	0.904 54.2	-35.4 -35.4 50.2	225	0.0	0.75 1.0	0.0	1.0	0.957 53.6
242	226	231	0.0	0.733 1.0	52.6	-25.2 -47.8 54.1	242	0.0	1.0	0.913 54.1	-34.9 -36.2 50.4	226	0.0	0.733 1.0	0.0	1.0	0.966 53.5
242	227	232	0.0	0.716 1.0	52.2	-24.5 -48.1 54.0	242	0.0	1.0	0.923 54.0	-34.4 -36.9 50.6	227	0.0	0.717 1.0	0.0	1.0	0.975 53.4
243	228	233	0.0	0.7 1.0	51.9	-23.9 -48.4 54.0	243	0.0	1.0	0.932 53.9	-33.9 -37.7 50.9	228	0.0	0.7 1.0	0.0	1.0	0.983 53.3
244	229	234	0.0	0.683 1.0	51.6	-23.2 -48.6 53.9	244	0.0	1.0	0.942 53.8	-33.4 -38.5 51.1	229	0.0	0.683 1.0	0.0	1.0	0.992 53.2
245	230	235	0.0	0.666 1.0	51.3	-22.5 -48.9 53.8	245	0.0	1.0	0.951 53.7	-32.9 -39.2 51.3	230	0.0	0.667 1.0	0.0	0.997 1.0	53.1
246	231	236	0.0	0.65 1.0	51.0	-21.8 -49.1 53.8	246	0.0	1.0	0.961 53.6	-32.3 -40.0 51.6	231	0.0	0.65 1.0	0.0	0.956 1.0	53.1
246	232	237	0.0	0.633 1.0	50.7	-21.1 -49.4 53.7	246	0.0	1.0	0.97 53.5	-31.8 -40.7 51.8	232	0.0	0.633 1.0	0.0	0.916 1.0	53.1
247	233	237	0.0	0.616 1.0	50.2	-20.2 -49.5 53.5	247	0.0	1.0	0.98 53.4	-31.2 -41.5 52.0	233	0.0	0.617 1.0	0.0	0.876 1.0	53.1
248	234	238	0.0	0.6 1.0	49.7	-19.2 -49.6 53.2	248	0.0	1.0	0.989 53.2	-30.6 -42.2 52.3	234	0.0	0.6 1.0	0.0	0.842 1.0	53.1
249	235	239	0.0	0.583 1.0	49.1	-18.2 -49.6 52.8	249	0.0	1.0	0.999 53.1	-30.0 -42.9 52.5	235	0.0	0.583 1.0	0.0	0.809 1.0	53.0
250	236	240	0.0	0.566 1.0	48.5	-17.2 -49.6 52.5	250	0.0	0.963 1.0	53.1	-29.3 -43.5 52.6	236	0.0	0.567 1.0	0.0	0.775 1.0	53.0
251	237	241	0.0	0.55 1.0	47.9	-16.2 -49.5 52.2	251	0.0	0.918 1.0	53.1	-28.6 -44.1 52.7	237	0.0	0.55 1.0	0.0	0.745 1.0	52.8
252	238	242	0.0	0.533 1.0	47.3	-15.2 -49.5 51.8	252	0.0	0.874 1.0	53.1	-27.9 -44.7 52.8	238	0.0	0.533 1.0	0.0	0.726 1.0	52.5
253	239	243	0.0	0.516 1.0	46.7	-14.3 -49.4 51.5	253	0.0	0.838 1.0	53.0	-27.3 -45.5 53.2	239	0.0	0.517 1.0	0.0	0.706 1.0	52.1
254	240	244	0.0	0.5 1.0	46.1	-13.3 -49.4 51.1	254	0.0	0.801 1.0	53.0	-26.7 -46.3 53.6	240	0.0	0.5 1.0	0.0	0.686 1.0	51.7
255	241	245	0.0	0.483 1.0	45.5	-12.3 -49.4 50.9	255	0.0	0.764 1.0	52.9	-26.1 -47.2 54.0	241	0.0	0.483 1.0	0.0	0.667 1.0	51.4
256	242	246	0.0	0.466 1.0	44.8	-11.4 -49.4 50.7	256	0.0	0.737 1.0	52.7	-25.3 -47.7 54.1	242	0.0	0.467 1.0	0.0	0.647 1.0	51.0
258	243	247	0.0	0.45 1.0	44.2	-10.5 -49.4 50.5	258	0.0	0.716 1.0	52.3	-24.4 -48.1 54.1	243	0.0	0.45 1.0	0.0	0.628 1.0	50.6
259	244	248	0.0	0.433 1.0	43.6	-9.5 -49.4 50.3	259	0.0	0.694 1.0	51.9	-23.6 -48.4 54.0	244	0.0	0.433 1.0	0.0	0.612 1.0	50.1
260	245	248	0.0	0.416 1.0	42.9	-8.6 -49.4 50.1	260	0.0	0.673 1.0	51.5	-22.7 -48.8 53.9	245	0.0	0.417 1.0	0.0	0.597 1.0	49.6
261	246	249	0.0	0.4 1.0	42.3	-7.7 -49.3 49.9	261	0.0	0.651 1.0	51.1	-21.8 -49.1 53.8	246	0.0	0.4 1.0	0.0	0.582 1.0	49.1
262	247	250	0.0	0.383 1.0	41.7	-6.8 -49.3 49.7	262	0.0	0.63 1.0	50.7	-20.9 -49.4 53.8	247	0.0	0.383 1.0	0.0	0.568 1.0	48.6
263	248	251	0.0	0.366 1.0	41.1	-5.7 -49.2 49.6	263	0.0	0.612 1.0	50.1	-19.9 -49.5 53.5	248	0.0	0.367 1.0	0.0	0.553 1.0	48.0
264	249	252	0.0	0.35 1.0	40.5	-4.6 -49.2 49.4	264	0.0	0.596 1.0	49.6	-18.9 -49.5 53.1	249	0.0	0.35 1.0	0.0	0.538 1.0	47.5
265	250	253	0.0	0.333 1.0	39.9	-3.4 -49.2 49.3	265	0.0	0.58 1.0	49.0	-18.0 -49.5 52.8	250	0.0	0.333 1.0	0.0	0.523 1.0	47.0
267	251	254	0.0	0.316 1.0	39.3	-2.3 -49.1 49.1	267	0.0	0.564 1.0	48.4	-17.0 -49.5 52.5	251	0.0	0.317 1.0	0.0	0.508 1.0	46.5
268	252	255	0.0	0.3 1.0	38.7	-1.1 -49.0 49.0	268	0.0	0.547 1.0	47.8	-16.0 -49.5 52.1	252	0.0	0.3 1.0	0.0	0.494 1.0	45.9
269	253	256	0.0	0.283 1.0	38.1	0.0 -48.9 48.9	269	0.0	0.531 1.0	47.3	-15.0 -49.4 51.8	253	0.0	0.283 1.0	0.0	0.479 1.0	45.4
271	254	257	0.0	0.266 1.0	37.4	1.1 -48.7 48.7	271	0.0	0.515 1.0	46.7	-14.1 -49.4 51.5	254	0.0	0.267 1.0	0.0	0.464 1.0	44.8
272	255	258	0.0	0.25 1.0	36.8	2.2 -48.5 48.6	272	0.0	0.499 1.0	46.1	-13.1 -49.3 51.2	255	0.0	0.25 1.0	0.0	0.449 1.0	44.2

1-0131330-L0 SE190-71 LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 14/33

TUB-test chart SE19; 1080 standard colours
48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=1, $cmYk$

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_e$

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, separationcmyn6 (CMYK)
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGBCM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours $RYGBCM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGBCM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Lab			Lab _s			rgb* _{dd361M}			LAB* _{dsx361Mi} (x=LabCh)			rgb* _{ds361Mi}			LAB* _{dsx361Mi} (x=LabCh)			rgb* _{dd361Mi}			rgb* _{de361Mi}			LAB* _{dex361Mi} (x=LabCh)			rgb* _{dd361Mi}			rgb* _{da361Mi}			rgb* _{ds361Mi}			rgb* _{de361Mi}		
272	255	258	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272	0.0	0.499	1.0	46.1	-13.1	-49.3	51.2	255	0.0	0.25	1.0	0.0	0.449	1.0	44.2	-10.4	-49.4	50.6	258	0.0	0.25	1.0						
273	256	258	0.0	0.233	1.0	36.6	3.2	-48.3	48.4	273	0.0	0.482	1.0	45.5	-12.2	-49.4	51.0	256	0.0	0.233	1.0	0.0	0.435	1.0	43.7	-9.5	-49.4	50.4	258	0.0	0.233	1.0						
274	257	259	0.0	0.216	1.0	36.4	4.1	-48.0	48.2	274	0.0	0.466	1.0	44.9	-11.3	-49.4	50.8	257	0.0	0.217	1.0	0.0	0.42	1.0	43.1	-8.7	-49.3	50.2	259	0.0	0.217	1.0						
276	258	260	0.0	0.2	1.0	36.1	5.1	-47.8	48.1	276	0.0	0.45	1.0	44.3	-10.4	-49.4	50.6	258	0.0	0.2	1.0	0.0	0.405	1.0	42.6	-7.9	-49.3	50.0	260	0.0	0.2	1.0						
277	259	261	0.0	0.183	1.0	35.9	6.1	-47.5	47.9	277	0.0	0.434	1.0	43.7	-9.5	-49.4	50.4	259	0.0	0.183	1.0	0.0	0.39	1.0	42.0	-7.1	-49.3	49.9	261	0.0	0.183	1.0						
278	260	262	0.0	0.166	1.0	35.6	7.0	-47.2	47.7	278	0.0	0.418	1.0	43.0	-8.6	-49.3	50.2	260	0.0	0.167	1.0	0.0	0.376	1.0	41.4	-6.3	-49.2	49.7	262	0.0	0.167	1.0						
279	261	263	0.0	0.15	1.0	35.4	8.0	-46.9	47.5	279	0.0	0.402	1.0	42.4	-7.7	-49.3	50.0	261	0.0	0.15	1.0	0.0	0.364	1.0	41.0	-5.5	-49.2	49.6	263	0.0	0.15	1.0						
280	262	264	0.0	0.133	1.0	35.2	8.9	-46.5	47.4	280	0.0	0.386	1.0	41.8	-6.8	-49.2	49.8	262	0.0	0.133	1.0	0.0	0.353	1.0	40.6	-4.7	-49.2	49.5	264	0.0	0.133	1.0						
282	263	265	0.0	0.116	1.0	34.9	9.9	-46.3	47.3	282	0.0	0.371	1.0	41.3	-6.0	-49.2	49.7	263	0.0	0.117	1.0	0.0	0.341	1.0	40.2	-3.9	-49.1	49.4	265	0.0	0.117	1.0						
283	264	266	0.0	0.1	1.0	34.5	10.9	-46.1	47.4	283	0.0	0.358	1.0	40.8	-5.1	-49.2	49.5	264	0.0	0.1	1.0	0.0	0.33	1.0	39.8	-3.1	-49.1	49.3	266	0.0	0.1	1.0						
284	265	267	0.0	0.083	1.0	34.2	11.9	-45.9	47.4	284	0.0	0.346	1.0	40.4	-4.2	-49.2	49.4	265	0.0	0.083	1.0	0.0	0.318	1.0	39.4	-2.3	-49.0	49.2	267	0.0	0.083	1.0						
285	266	268	0.0	0.066	1.0	33.9	12.9	-45.7	47.5	285	0.0	0.333	1.0	39.9	-3.3	-49.1	49.3	266	0.0	0.067	1.0	0.0	0.307	1.0	39.0	-1.5	-49.0	49.1	268	0.0	0.067	1.0						
287	267	269	0.0	0.049	1.0	33.5	13.9	-45.4	47.5	287	0.0	0.3																										

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS TUB material
- application for measurement of laser printer output, separationcnmy6 (CMYK)

TUB-test chart SE19; 1080 standard colours
48 step hue circles; *rgb-LabCh** tables, 3D=

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_o$

Output: Laser printer output; separation cmyn6*, D65, page 15/33

Data of Maximum color M in colorimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
324	300	300	0.5 0.0 1.0	37.2 43.1 -30.8 53.0	324	0.136 0.0 1.0	31.6 24.3 -41.9 48.5	300	0.5 0.0 1.0	0.139 0.0 1.0	31.5 24.4 -41.9 48.6	300	0.5 0.0 1.0	
325	301	301	0.516 0.0 1.0	37.4 43.8 -30.4 53.4	325	0.151 0.0 1.0	31.5 25.1 -41.6 48.7	301	0.517 0.0 1.0	0.153 0.0 1.0	31.5 25.2 -41.6 48.7	301	0.517 0.0 1.0	
326	302	302	0.533 0.0 1.0	37.7 44.5 -29.9 53.7	326	0.165 0.0 1.0	31.4 25.9 -41.3 48.9	302	0.533 0.0 1.0	0.166 0.0 1.0	31.4 26.0 -41.3 48.9	302	0.533 0.0 1.0	
326	303	303	0.55 0.0 1.0	37.9 45.3 -29.5 54.0	326	0.18 0.0 1.0	31.4 26.7 -41.0 49.0	303	0.55 0.0 1.0	0.18 0.0 1.0	31.4 26.7 -41.0 49.0	303	0.55 0.0 1.0	
327	304	303	0.566 0.0 1.0	38.2 46.0 -29.0 54.4	327	0.194 0.0 1.0	31.3 27.5 -40.7 49.2	304	0.567 0.0 1.0	0.194 0.0 1.0	31.3 27.5 -40.7 49.2	303	0.567 0.0 1.0	
328	305	304	0.583 0.0 1.0	38.4 46.7 -28.5 54.7	328	0.209 0.0 1.0	31.2 28.3 -40.3 49.4	305	0.583 0.0 1.0	0.208 0.0 1.0	31.2 28.3 -40.4 49.4	304	0.583 0.0 1.0	
329	306	305	0.6 0.0 1.0	38.7 47.4 -28.0 55.1	329	0.224 0.0 1.0	31.1 29.1 -40.0 49.5	306	0.6 0.0 1.0	0.222 0.0 1.0	31.2 29.0 -40.0 49.5	305	0.6 0.0 1.0	
330	307	306	0.616 0.0 1.0	38.9 48.1 -27.5 55.4	330	0.238 0.0 1.0	31.1 29.9 -39.6 49.7	307	0.617 0.0 1.0	0.235 0.0 1.0	31.1 29.8 -39.7 49.7	306	0.617 0.0 1.0	
331	308	307	0.633 0.0 1.0	39.2 48.9 -26.9 55.8	331	0.252 0.0 1.0	31.1 30.7 -39.2 49.9	308	0.633 0.0 1.0	0.249 0.0 1.0	31.0 30.5 -39.3 49.8	307	0.633 0.0 1.0	
332	309	308	0.65 0.0 1.0	39.6 49.8 -26.2 56.3	332	0.265 0.0 1.0	31.4 31.5 -38.8 50.1	309	0.65 0.0 1.0	0.261 0.0 1.0	31.3 31.3 -39.0 50.0	308	0.65 0.0 1.0	
333	310	309	0.666 0.0 1.0	40.0 50.7 -25.4 56.8	333	0.278 0.0 1.0	31.8 32.3 -38.4 50.3	310	0.667 0.0 1.0	0.274 0.0 1.0	31.6 32.1 -38.6 50.2	309	0.667 0.0 1.0	
334	311	310	0.683 0.0 1.0	40.4 51.6 -24.7 57.2	334	0.291 0.0 1.0	32.1 33.1 -38.0 50.5	311	0.683 0.0 1.0	0.286 0.0 1.0	32.0 32.8 -38.2 50.4	310	0.683 0.0 1.0	
335	312	311	0.7 0.0 1.0	40.7 52.5 -23.9 57.7	335	0.304 0.0 1.0	32.4 33.9 -37.6 50.7	312	0.7 0.0 1.0	0.298 0.0 1.0	32.3 33.6 -37.8 50.6	311	0.7 0.0 1.0	
336	313	312	0.716 0.0 1.0	41.1 53.4 -23.1 58.2	336	0.317 0.0 1.0	32.8 34.7 -37.2 50.9	313	0.717 0.0 1.0	0.31 0.0 1.0	32.6 34.3 -37.4 50.8	312	0.717 0.0 1.0	
337	314	313	0.733 0.0 1.0	41.5 54.3 -22.3 58.7	337	0.33 0.0 1.0	33.1 35.5 -36.7 51.1	314	0.733 0.0 1.0	0.323 0.0 1.0	32.9 35.1 -37.0 51.0	313	0.733 0.0 1.0	
338	315	314	0.75 0.0 1.0	41.8 55.1 -21.4 59.1	338	0.343 0.0 1.0	33.4 36.3 -36.2 51.4	315	0.75 0.0 1.0	0.335 0.0 1.0	33.2 35.8 -36.5 51.2	314	0.75 0.0 1.0	
339	316	315	0.766 0.0 1.0	42.4 55.8 -20.9 59.6	339	0.356 0.0 1.0	33.8 37.1 -35.7 51.6	316	0.767 0.0 1.0	0.347 0.0 1.0	33.5 36.6 -36.0 51.4	315	0.767 0.0 1.0	
340	317	316	0.783 0.0 1.0	42.9 56.5 -20.4 60.1	340	0.368 0.0 1.0	34.1 37.9 -35.2 51.8	317	0.783 0.0 1.0	0.359 0.0 1.0	33.9 37.3 -35.6 51.6	316	0.783 0.0 1.0	
340	318	317	0.8 0.0 1.0	43.4 57.2 -19.8 60.5	340	0.384 0.0 1.0	34.5 38.6 -34.7 52.0	318	0.8 0.0 1.0	0.371 0.0 1.0	34.2 38.0 -35.1 51.8	317	0.8 0.0 1.0	
341	319	318	0.816 0.0 1.0	43.9 57.8 -19.3 61.0	341	0.402 0.0 1.0	34.9 39.3 -34.1 52.1	319	0.817 0.0 1.0	0.387 0.0 1.0	34.6 38.8 -34.6 52.0	318	0.817 0.0 1.0	
342	320	319	0.833 0.0 1.0	44.4 58.5 -18.7 61.4	342	0.42 0.0 1.0	35.3 40.1 -33.5 52.3	320	0.833 0.0 1.0	0.404 0.0 1.0	35.0 39.4 -34.0 52.2	319	0.833 0.0 1.0	
342	321	320	0.85 0.0 1.0	44.9 59.1 -18.2 61.9	342	0.438 0.0 1.0	35.8 40.8 -32.9 52.5	321	0.85 0.0 1.0	0.421 0.0 1.0	35.4 40.1 -33.5 52.3	320	0.85 0.0 1.0	
343	322	321	0.866 0.0 1.0	45.4 59.8 -17.6 62.3	343	0.456 0.0 1.0	36.2 41.5 -32.3 52.7	322	0.867 0.0 1.0	0.439 0.0 1.0	35.8 40.8 -32.9 52.5	321	0.867 0.0 1.0	
344	323	321	0.883 0.0 1.0	45.8 60.5 -17.0 62.8	344	0.474 0.0 1.0	36.6 42.2 -31.7 52.8	323	0.883 0.0 1.0	0.456 0.0 1.0	36.2 41.5 -32.3 52.6	321	0.883 0.0 1.0	
344	324	322	0.9 0.0 1.0	46.1 61.2 -16.4 63.4	344	0.492 0.0 1.0	37.1 42.9 -31.1 53.0	324	0.9 0.0 1.0	0.473 0.0 1.0	36.6 42.1 -31.7 52.8	322	0.9 0.0 1.0	
345	325	323	0.916 0.0 1.0	46.5 61.9 -15.9 63.9	345	0.512 0.0 1.0	37.4 43.7 -30.5 53.3	325	0.917 0.0 1.0	0.49 0.0 1.0	37.0 42.8 -31.1 53.0	323	0.917 0.0 1.0	
346	326	324	0.933 0.0 1.0	46.8 62.6 -15.3 64.5	346	0.532 0.0 1.0	37.7 44.5 -29.9 53.7	326	0.933 0.0 1.0	0.508 0.0 1.0	37.4 43.5 -30.6 53.2	324	0.933 0.0 1.0	
346	327	325	0.95 0.0 1.0	47.1 63.3 -14.6 65.0	346	0.552 0.0 1.0	38.0 45.4 -29.4 54.1	327	0.95 0.0 1.0	0.527 0.0 1.0	37.6 44.3 -30.1 53.6	325	0.95 0.0 1.0	
347	328	326	0.966 0.0 1.0	47.5 64.0 -14.0 65.5	347	0.572 0.0 1.0	38.3 46.2 -28.8 54.5	328	0.967 0.0 1.0	0.546 0.0 1.0	37.9 45.1 -29.5 54.0	326	0.967 0.0 1.0	
348	329	327	0.983 0.0 1.0	47.8 64.7 -13.4 66.1	348	0.592 0.0 1.0	38.6 47.1 -28.2 54.9	329	0.983 0.0 1.0	0.565 0.0 1.0	38.2 46.0 -29.0 54.4	327	0.983 0.0 1.0	
348	330	328	1.0 0.0 1.0	48.1 65.4 -12.7 66.6	348	M_d 0.612 0.0 1.0	38.9 47.9 -27.6 55.4	$330M_s$ 1.0 0.0 1.0	0.584 0.0 1.0	38.5 46.8 -28.4 54.8	$328M_e$ 1.0 0.0 1.0	1.0 0.0 1.0		
349	331	329	1.0 0.0 0.983	48.3 65.5 -12.5 66.7	349	0.631 0.0 1.0	39.2 48.8 -26.9 55.8	331	1.0 0.0 0.983	0.603 0.0 1.0	38.8 47.6 -27.9 55.2	329	1.0 0.0 0.983	
349	332	330	1.0 0.0 0.966	48.5 65.6 -12.2 66.7	349	0.646 0.0 1.0	39.6 49.6 -26.3 56.2	332	1.0 0.0 0.967	0.623 0.0 1.0	39.1 48.4 -27.3 55.6	330	1.0 0.0 0.967	
349	333	331	1.0 0.0 0.95	48.7 65.7 -11.9 66.8	349	0.662 0.0 1.0	39.9 50.5 -25.6 56.7	333	1.0 0.0 0.95	0.638 0.0 1.0	39.4 49.2 -26.7 56.0	331	1.0 0.0 0.95	
349	334	332	1.0 0.0 0.933	48.9 65.8 -11.7 66.8	349	0.677 0.0 1.0	40.3 51.3 -24.9 57.1	334	1.0 0.0 0.933	0.652 0.0 1.0	39.7 50.0 -26.0 56.4	332	1.0 0.0 0.933	
350	335	333	1.0 0.0 0.916	49.0 65.9 -11.4 66.9	350	0.692 0.0 1.0	40.6 52.1 -24.2 57.5	335	1.0 0.0 0.917	0.667 0.0 1.0	40.0 50.8 -25.4 56.8	333	1.0 0.0 0.917	
350	336	334	1.0 0.0 0.9	49.2 66.0 -11.1 66.9	350	0.708 0.0 1.0	41.0 53.0 -23.5 58.0	336	1.0 0.0 0.9	0.681 0.0 1.0	40.4 51.6 -24.7 57.2	334	1.0 0.0 0.9	
350	337	335	1.0 0.0 0.883	49.4 66.1 -10.9 67.0	350	0.723 0.0 1.0	41.3 53.8 -22.7 58.4	337	1.0 0.0 0.883	0.696 0.0 1.0	40.7 52.3 -24.0 57.6	335	1.0 0.0 0.883	
350	338	336	1.0 0.0 0.866	49.5 66.0 -10.4 66.9	350	0.738 0.0 1.0	41.6 54.6 -22.0 58.9	338	1.0 0.0 0.867	0.711 0.0 1.0	41.0 53.1 -23.3 58.1	336	1.0 0.0 0.867	
351	339	337	1.0 0.0 0.85	49.4 65.8 -9.9 66.6	351	0.756 0.0 1.0	42.1 55.4 -21.2 59.4	339	1.0 0.0 0.85	0.725 0.0 1.0	41.3 53.9 -22.6 58.5	337	1.0 0.0 0.85	
351	340	338	1.0 0.0 0.833	49.4 65.6 -9.3 66.3	351	0.78 0.0 1.0	42.8 56.4 -20.4 60.0	340	1.0 0.0 0.833	0.74 0.0 1.0	41.7 54.6 -21.9 58.9	338	1.0 0.0 0.833	
352	341	339	1.0 0.0 0.816	49.4 65.4 -8.7 66.0	352	0.804 0.0 1.0	43.5 57.4 -19.7 60.7	341	1.0 0.0 0.817	0.757 0.0 1.0	42.1 55.5 -21.1 59.4	339	1.0 0.0 0.817	
352	342	339	1.0 0.0 0.8	49.4 65.2 -8.2 65.7	352	0.828 0.0 1.0	44.3 58.3 -18.9 61.3	342	1.0 0.0 0.8	0.78 0.0 1.0	42.8 56.4 -20.4 60.0	339	1.0 0.0 0.8	
353	343	340	1.0 0.0 0.783	49.3 65.0 -7.6 65.4	353	0.852 0.0 1.0	45.0 59.3 -18.0 62.0	343	1.0 0.0 0.783	0.802 0.0 1.0	43.5 57.3 -19.7 60.6	340	1.0 0.0 0.783	
353	344	341	1.0 0.0 0.766	49.3 64.7 -7.1 65.1	353	0.877 0.0 1.0	45.7 60.2 -17.2 62.7	344	1.0 0.0 0.767	0.825 0.0 1.0	44.2 58.2 -19.0 61.3	341	1.0 0.0 0.767	
354	345	342	1.0 0.0 0.75	49.3 64.5 -6.5 64.8	354	0.902 0.0 1.0	46.2 61.3 -16.3 63.5	345	1.0 0.0 0.75	0.848 0.0 1.0	44.9 59.1 -18.2 61.9	342	1.0 0.0 0.75	

1-0131530-L0 SE190-71 LAB*la0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB*nw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyn6*, D65, page 16/33

TUB-test chart SE19; 1080 standard colours
48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=1, $cmYk$

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to $cmyk_e$

rimetric system Laser printer output; separation cmyn6*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; s_{RYGCBM_s} : $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$; Six hue angles of the elementary colours $RYGCBM_c$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Angles of the RGB colours (x=LabCh) (x=LabCh)										Angles of the elementary colours (x=LabCh)										Angles of the elementary colours (x=LabCh)										Angles of the elementary colours (x=LabCh)									
h _{ab}	h _{ab,s}	h _{ab,e}	rgb*	dd361Mi	LAB*	dsx361Mi	(x=LabCh)	rgb*	ds361Mi	LAB*	dsx361Mi	(x=LabCh)	rgb*	dd361Mi	LAB*	dsx361Mi	(x=LabCh)	rgb*	dd361Mi	LAB*	dsx361Mi	(x=LabCh)	rgb*	dd361Mi	LAB*	dsx361Mi	(x=LabCh)	rgb*	dd361Mi	LAB*	dsx361Mi	(x=LabCh)							
354	345	342	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354	0.902	0.0	1.0	46.2	61.3	-16.3	63.5	345	1.0	0.0	0.75	0.848	0.0	1.0	44.9	59.1	-18.2	61.9	342	1.0	0.0	0.75							
355	346	343	1.0	0.0	0.733	49.1	64.2	-5.3	64.4	355	0.926	0.0	1.0	46.7	62.4	-15.5	64.3	346	1.0	0.0	0.733	0.871	0.0	1.0	45.6	60.0	-17.4	62.5	343	1.0	0.0	0.733							
356	347	344	1.0	0.0	0.716	48.9	63.9	-4.1	64.0	356	0.951	0.0	1.0	47.2	63.4	-14.5	65.1	347	1.0	0.0	0.717	0.895	0.0	1.0	46.1	61.0	-16.6	63.2	344	1.0	0.0	0.717							
357	348	345	1.0	0.0	0.7	48.7	63.5	-2.9	63.6	357	0.976	0.0	1.0	47.7	64.5	-13.6	65.9	348	1.0	0.0	0.7	0.918	0.0	1.0	46.5	62.0	-15.7	64.0	345	1.0	0.0	0.7							
358	349	346	1.0	0.0	0.683	48.6	63.2	-1.8	63.2	358	1.0	0.0	0.996	48.2	65.4	-12.6	66.7	349	1.0	0.0	0.683	0.942	0.0	1.0	47.0	63.0	-14.9	64.8	346	1.0	0.0	0.683							
359	350	347	1.0	0.0	0.666	48.4	62.8	-0.6	62.8	359	1.0	0.0	0.927	49.0	65.9	-11.5	66.9	350	1.0	0.0	0.667	0.966	0.0	1.0	47.5	64.0	-14.0	65.5	347	1.0	0.0	0.667							
360	351	348	1.0	0.0	0.65	48.2	62.4	0.4	62.4	360	1.0	0.0	0.866	49.5	66.1	-10.4	66.9	351	1.0	0.0	0.65	0.989	0.0	1.0	48.0	65.0	-13.1	66.3	348	1.0	0.0	0.65							
361	352	349	1.0	0.0	0.633	48.0	62.0	1.5	62.0	361	1.0	0.0	0.83	49.5	65.6	-9.1	66.3	352	1.0	0.0	0.633	1.0	0.0	0.964	48.6	65.6	-12.1	66.8	349	1.0	0.0	0.633							
362	353	350	1.0	0.0	0.616	47.9	61.6	2.7	61.7	362	1.0	0.0	0.794	49.4	65.2	-7.9	65.6	353	1.0	0.0	0.617	1.0	0.0	0.899	49.3	66.0	-11.1	67.0	350	1.0	0.0	0.617							
363	354	351	1.0	0.0	0.6	47.9	61.3	3.8	61.4	363	1.0	0.0	0.757	49.3	64.7	-6.7	65.0	354	1.0	0.0	0.6	1.0	0.0	0.853	49.5	65.9	-9.9	66.7	351	1.0	0.0	0.6							
364	355	352	1.0	0.0	0.583	47.9	60.9	4.9	61.1	364	1.0	0.0	0.737	49.2	64.3	-5.5	64.6	355	1.0	0.0	0.583	1.0	0.0	0.819	49.4	65.5	-8.7	66.1	352	1.0	0.0	0.583							
365	356	353	1.0	0.0	0.566	47.9	60.6	6.0	60.9	365	1.0	0.0	0.721	49.0	64.0	-4.4	64.2	356	1.0	0.0	0.567	1.0	0.0	0.785	49.4	65.0	-7.6	65.5	353	1.0	0.0	0.567							
366	357	354	1.0	0.0	0.55	47.8	60.2	7.1	60.6	366	1.0	0.0	0.705	48.9																									

TUB registration: 20130201-SE19/SE19L0NP.PDF /.PS
application for measurement of laser printer output, sep.

TUB material: code=rh4ta
myn6 (CMYK)

Output: Laser printer output; separation cmyn6*, D65, page 17/33

TUB-test chart SE19; 1080 standard colours

48 step hue circles; *rgb-LabCh** tables, 3D=0, de=1, *cmYk*

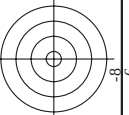
input: $rgb/cmyk \rightarrow rgb_e$

output: transfer to $cmyk_e$

nj	H1C*Fe	rgb_Fe	icr_Fe	hsa_Fe	rgb*Fe	LabCH*Fe	LabCH*Fe	rgb*Fe	DF*Fe	hsa*Fe	rgb*Fe	LabCH*Fe	LabCH*Fe	rgb*Fe	LabCH*Fe	LabCH*Fe
0/648	R00Y_100_100e	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1/657	R13Y_100_100e	1.0	0.125	0.0	1.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2/666	R25Y_100_100e	1.0	0.25	0.0	1.0	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/675	R38Y_100_100e	1.0	0.375	0.0	1.0	0.0	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4/684	R50Y_100_100e	1.0	0.5	0.0	1.0	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5/693	R63Y_100_100e	1.0	0.625	0.0	1.0	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6/702	R75Y_100_100e	1.0	0.75	0.0	1.0	0.0	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7/711	R88Y_100_100e	1.0	0.875	0.0	1.0	0.0	0.058	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8/720	Y00C_100_100e	1.0	1.0	0.0	1.0	0.0	0.066	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9/639	Y13C_100_100e	0.875	1.0	0.0	1.0	0.0	0.074	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10/558	Y25C_100_100e	0.75	1.0	0.0	1.0	0.0	0.082	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11/477	Y38C_100_100e	0.625	1.0	0.0	1.0	0.0	0.090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12/396	Y50C_100_100e	0.5	1.0	0.0	1.0	0.0	0.098	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13/315	Y63C_100_100e	0.375	1.0	0.0	1.0	0.0	0.106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14/234	Y75C_100_100e	0.25	1.0	0.0	1.0	0.0	0.114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15/153	Y88C_100_100e	0.125	1.0	0.0	1.0	0.0	0.122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16/72	G00C_100_100e	0.0	1.0	0.0	1.0	0.0	0.130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17/73	G13C_100_100e	0.0	1.0	0.125	1.0	0.0	0.138	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18/74	G25C_100_100e	0.0	1.0	0.25	1.0	0.0	0.146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19/75	G38C_100_100e	0.0	1.0	0.375	1.0	0.0	0.154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20/76	G50C_100_100e	0.0	1.0	0.5	1.0	0.0	0.162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21/77	G63C_100_100e	0.0	1.0	0.625	1.0	0.0	0.170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22/78	G75C_100_100e	0.0	1.0	0.75	1.0	0.0	0.178	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23/79	G88C_100_100e	0.0	1.0	0.875	1.0	0.0	0.186	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24/80	C00B_100_100e	0.0	1.0	1.0	1.0	0.0	0.194	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25/81	C13B_100_100e	0.0	1.0	1.0	1.0	0.0	0.202	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26/62	C25B_100_100e	0.0	0.875	1.0	1.0	0.0	0.210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27/63	C38B_100_100e	0.0	0.75	1.0	1.0	0.0	0.218	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28/44	C50B_100_100e	0.0	0.625	1.0	1.0	0.0	0.226	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29/35	C63B_100_100e	0.0	0.5	1.0	1.0	0.0	0.234	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30/26	C75B_100_100e	0.0	0.375	1.0	1.0	0.0	0.242	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31/17	C88B_100_100e	0.0	0.25	1.0	1.0	0.0	0.250	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32/8	B00M_100_100e	0.0	0.0	1.0	1.0	0.0	0.258	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33/89	B13M_100_100e	0.125	0.0	1.0	1.0	0.0	0.266	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34/170	B25M_100_100e	0.25	0.0	1.0	1.0	0.0	0.274	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35/251	B38M_100_100e	0.375	0.0	1.0	1.0	0.0	0.282	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36/332	B50M_100_100e	0.5	0.0	1.0	1.0	0.0	0.290	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37/413	B63M_100_100e	0.625	0.0	1.0	1.0	0.0	0.298	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38/494	B75M_100_100e	0.75	0.0	1.0	1.0	0.0	0.306	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39/575	B88M_100_100e	0.875	0.0	1.0	1.0	0.0	0.314	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40/656	M00R_100_100e	1.0	0.0	1.0	1.0	0.0	0.322	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41/655	M13R_100_100e	1.0	0.0	0.875	1.0	0.0	0.330	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42/654	M25R_100_100e	1.0	0.0	0.75	1.0	0.0	0.338	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43/653	M38R_100_100e	1.0	0.0	0.625	1.0	0.0	0.346	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44/652	M50R_100_100e	1.0	0.0	0.5	1.0	0.0	0.354	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45/651	M63R_100_100e	1.0	0.0	0.375	1.0	0.0	0.362	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46/650	M75R_100_100e	1.0	0.0	0.25	1.0	0.0	0.370	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47/649	M88R_100_100e	1.0	0.0	0.125	1.0	0.0	0.378	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48/648	R00Y_100_100e	1.0	0.0	0.0	1.0	0.0	0.386	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49/0	NW_000e	0.0	0.0	0.0	0.0	0.0	0.394	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50/91	NW_012e	0.125	0.0	0.0	0.0	0.0	0.402	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51/182	NW_025e	0.25	0.0	0.0	0.0	0.0	0.410	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52/273	NW_038e	0.375	0.0	0.0	0.0	0.0	0.418	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53/364	NW_050e	0.5	0.0	0.0	0.0	0.0	0.426	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54/455	NW_063e	0.625	0.0	0.0	0.0	0.0	0.434	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55/546	NW_075e	0.75	0.0	0.0	0.0	0.0	0.442	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56/637	NW_088e	0.875	0.0	0.0	0.0	0.0	0.450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57/728	NW_100e	1.0	1.0	1.0	1.0	1.0	0.458	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Mean color difference of this page:

delta E* = 14.2



TUB material: code=rha4ta
myn6 (CMYK)

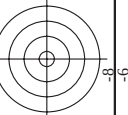
input: $rgb/cmyk \rightarrow rgbe$
output: transfer to $cmyk_e$

[illegible]

Mean color difference of this page:

 $\Delta E^* = 12.1$

see similar files: <http://130.149.60.45/~farbmetrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



TUB material: code=rha4ta
myn6 (CMYK)

input: *rgb/cmyk* $\rightarrow$ *rgb*_e
output: transfer to *cmyk*_e

[illegible]



TUB material: code=rha4ta
nyn6 (CMYK)

input: *rgb/cmyk* → *rgb*_e
output: transfer to *cmyk*_e

TUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=1, cmv

SF190-7N Page 21/33-F

-0132030-E0

[illegible]

http://130.149.60.45/~farbmatrik/SE19/SE19L0NP.PDF /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 22/33

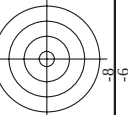
input: *rgb/cmyk* → *rgbe*
output: transfer to *cmyk_e*

TUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=1, cmvk

SF 190-7N Page 22/33-E

-0132130-F0

-see similar files: <http://130.149.60.45/~farbmatrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>



TUB material: code=rha4ta
nyn6 (CMYK)

A target diagram with a central bullseye and three concentric rings. The score '5-8' is written to the right of the target, indicating a score of 5 points for the bullseye and 8 points for the outermost ring.

TTUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=1, cmyk

SE190-7N, Page 23/33-F

[illegible]

see similar files: <http://130.149.60.45/~farbmtrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmtrik>

TUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=1, cmyk

input: $rgb/cmyk \rightarrow rgbe$
output: transfer to $cmyk_e$

[illegible]

see similar files: <http://130.149.60.45/~farbmatrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

http://130.149.60.45/~farbmatrik/SE19/SE19LONP.PDF /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 25/33

TTUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=1, cmvk

input: *rgb/cmyk* → *rgb*_e
output: transfer to *cmyk*_e

n	HIC-Fe	rgb-Fe	lcr-Fe	h_2 -Fe	LabCh-Fe	rgb-Fe	LabCh-Fe	rgb-Fe	LabCh-Fe	DE-Fe	h_{base}	rgb-Fe	LabCh-Fe
405	R00Y_062_062e	0.625	0.0	0.625	0.625	0.312	390	0.625	0.0	0.164	38.6	35.0	38.8
406	R31Y_062_062e	0.625	0.125	0.625	0.625	0.312	379	0.625	0.0	0.284	38.7	36.4	38.5
407	R11Y_062_062e	0.625	0.0	0.625	0.625	0.312	367	0.625	0.0	0.412	39.1	39.1	40.1
408	B69R_062_062e	0.625	0.0	0.375	0.625	0.312	353	0.625	0.0	0.562	39.7	41.2	39.9
409	B59R_062_062e	0.625	0.0	0.625	0.625	0.312	341	0.625	0.0	0.625	35.2	34.6	37.2
410	B59R_062_062e	0.625	0.0	0.625	0.625	0.312	330	0.625	0.0	0.625	33.0	29.2	37.2
411	B42R_075_075e	0.625	0.0	0.75	0.75	0.375	321	0.625	0.0	0.316	30.0	35.2	39.2
412	B36R_087_087e	0.625	0.0	0.875	0.875	0.437	314	0.625	0.0	0.316	30.7	32.4	44.6
413	B31R_062_062e	0.625	0.0	1.0	1.0	0.5	308	0.625	0.0	0.412	30.7	30.7	49.8
414	B31R_062_062e	0.625	0.0	1.0	1.0	0.5	308	0.625	0.0	0.412	30.7	30.7	49.8
415	R00Y_062_050e	0.625	0.125	0.625	0.625	0.312	414	0.625	0.038	0.0	40.0	35.0	27.1
416	R26Y_062_050e	0.625	0.125	0.625	0.625	0.375	390	0.625	0.125	0.256	44.7	28.0	13.3
417	R00Y_062_050e	0.625	0.125	0.375	0.625	0.375	360	0.625	0.125	0.538	45.6	29.5	5.1
418	B61R_062_050e	0.625	0.125	0.375	0.625	0.375	344	0.625	0.125	0.538	45.6	32.7	-4.5
419	B40R_075_062e	0.625	0.125	0.625	0.625	0.375	330	0.625	0.125	0.625	40.1	23.3	-14.2
420	B40R_075_062e	0.625	0.125	0.625	0.625	0.375	319	0.625	0.125	0.625	40.1	23.3	-14.2
421	B34R_087_075e	0.625	0.125	0.875	0.875	0.437	311	0.625	0.125	0.875	38.9	24.6	-38.4
422	B29R_100_075e	0.625	0.125	1.0	1.0	0.875	305	0.625	0.125	1.0	39.2	24.7	-35.4
423	R23Y_062_062e	0.625	0.25	0.625	0.625	0.312	53	0.625	0.179	0.125	46.6	27.4	43.6
424	R23Y_062_062e	0.625	0.25	0.625	0.625	0.312	53	0.625	0.179	0.125	46.6	27.4	43.6
425	R00Y_062_037e	0.625	0.25	0.375	0.625	0.437	390	0.625	0.25	0.348	50.7	21.0	23.2
426	R18Y_062_037e	0.625	0.25	0.375	0.625	0.437	371	0.625	0.25	0.447	50.8	22.9	1.7
427	B69R_062_037e	0.625	0.25	0.375	0.625	0.437	349	0.625	0.25	0.503	50.3	23.6	5.4
428	B59R_062_037e	0.625	0.25	0.625	0.625	0.437	330	0.625	0.25	0.625	47.3	17.5	-10.7
429	B38R_075_050e	0.625	0.25	0.75	0.75	0.437	316	0.625	0.25	0.75	48.6	18.2	35.7
430	B35R_100_075e	0.625	0.25	1.0	1.0	0.875	306	0.625	0.25	1.0	50.8	23.0	30.6
431	B35R_100_075e	0.625	0.25	1.0	1.0	0.875	306	0.625	0.25	1.0	50.8	23.0	30.6
432	R61Y_062_062e	0.625	0.375	0.625	0.625	0.312	67	0.625	0.257	0.0	50.4	16.7	38.9
433	R61Y_062_062e	0.625	0.375	0.625	0.625	0.312	67	0.625	0.257	0.0	50.4	16.7	38.9
434	R31Y_062_037e	0.625	0.375	0.625	0.625	0.437	434	0.625	0.316	0.25	53.3	18.4	19.5
435	R00Y_062_025e	0.625	0.375	0.625	0.625	0.375	0.5	0.625	0.375	0.44	56.7	14.0	6.5
436	R00Y_062_025e	0.625	0.375	0.625	0.625	0.375	0.5	0.625	0.375	0.44	56.7	14.0	6.5
437	B34R_075_037e	0.625	0.375	0.625	0.625	0.437	311	0.625	0.375	0.581	57.2	16.3	-2.2
438	B29R_087_050e	0.625	0.375	0.75	0.75	0.625	300	0.625	0.375	0.581	57.2	16.3	-2.2
439	B29R_087_050e	0.625	0.375	0.75	0.75	0.625	300	0.625	0.375	0.581	57.2	16.3	-2.2
440	B19R_100_062e	0.625	0.375	1.0	1.0	0.625	293	0.625	0.375	0.875	54.6	12.2	-14.3
441	R81Y_062_062e	0.625	0.5	0.625	0.625	0.312	79	0.625	0.375	0.5	55.0	11.9	-27.4
442	R61Y_062_050e	0.625	0.5	0.625	0.625	0.312	79	0.625	0.375	0.5	55.0	11.9	-27.4
443	R61Y_062_050e	0.625	0.5	0.625	0.625	0.312	79	0.625	0.375	0.5	55.0	11.9	-27.4
444	R00Y_062_012e	0.625	0.5	0.625	0.625	0.5	60	0.625	0.425	0.25	58.7	8.0	34.1
445	R00Y_062_012e	0.625	0.5	0.625	0.625	0.5	60	0.625	0.425	0.25	58.7	8.0	34.1
446	B59R_075_025e	0.625	0.5	0.625	0.625	0.5	390	0.625	0.454	0.375	60.3	8.8	14.6
447	B25R_075_025e	0.625	0.5	0.625	0.625	0.5	360	0.625	0.5	0.532	62.8	7.0	3.3
448	B15R_087_037e	0.625	0.5	0.875	0.875	0.625	289	0.625	0.5	0.75	61.7	6.1	-10.4
449	B11R_100_037e	0.625	0.5	1.0	1.0	0.5	277	0.625	0.5	0.508	63.9	6.0	-22.9
450	Y00G_062_062e	0.625	0.625	0.625	0.625	0.312	90	0.625	0.48	0.0	62.2	48.0	92.3
451	Y00G_062_062e	0.625	0.625	0.625	0.625	0.312	90	0.625	0.48	0.0	62.2	48.0	92.3
452	Y00G_062_037e	0.625	0.625	0.625	0.625	0.437	90	0.625	0.509	0.125	62.2	48.0	92.3
453	Y00G_062_037e	0.625	0.625	0.625	0.625	0.437	90	0.625	0.509	0.125	62.2	48.0	92.3
454	Y00G_062_025e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
455	Y00G_062_025e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
456	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
457	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
458	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
459	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
460	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
461	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
462	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
463	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
464	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
465	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
466	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
467	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
468	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
469	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
470	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
471	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
472	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
473	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
474	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
475	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
476	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
477	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
478	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
479	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
480	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
481	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
482	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
483	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
484	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3
485	Y00G_062_012e	0.625	0.625	0.625	0.625	0.5	90	0.625	0.538	0.25	64.2	48.0	92.3

n	H1C*Fe	rgb-Fe	icL-Fe	hsa-Fe	rgb*Fe	LabCh*Fe	rgb*Fe	LabCh*Fe	DF*Fe	hsa*Fe	rgb*Fe	LabCh*Fe
486	R00Y, 0.75, 0.75	0.75	0.0	0.197	41.6	42.0	20.0	46.5	25.4	39.7	47.0	39.7
487	R35Y, 0.75, 0.75	0.75	0.0	0.317	41.6	42.0	11.9	45.0	14.3	40.0	47.0	40.0
488	R10Y, 0.75, 0.75	0.75	0.0	0.441	41.6	42.0	3.4	45.9	4.3	39.3	47.0	39.3
489	R00Y, 0.75, 0.75	0.75	0.0	0.565	41.6	42.0	-6.8	49.6	35.0	39.3	47.0	39.3
490	B65R, 0.75, 0.75	0.75	0.0	0.75	41.6	42.0	-11.2	48.5	34.6	39.3	47.0	39.3
491	B57R, 0.75, 0.75	0.75	0.0	0.75	36.9	40.4	-17.0	43.8	33.7	39.3	47.0	39.3
492	B43R, 0.75, 0.75	0.75	0.0	0.75	34.8	35.0	-21.4	41.0	32.6	39.3	47.0	39.3
493	B30R, 0.75, 0.75	0.75	0.0	0.75	34.2	35.0	-28.8	45.9	32.1	39.3	47.0	39.3
494	B18R, 0.75, 0.75	0.75	0.0	0.75	34.2	35.0	-36.1	51.4	31.5	39.3	47.0	39.3
495	R15Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
496	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
497	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
498	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
499	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
500	B50R, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
501	B30R, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
502	B18R, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
503	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
504	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
505	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
506	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
507	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
508	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
509	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
510	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
511	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
512	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
513	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
514	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
515	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
516	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
517	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
518	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
519	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
520	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
521	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
522	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
523	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
524	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
525	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
526	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
527	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
528	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
529	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
530	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
531	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
532	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
533	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
534	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
535	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
536	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
537	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
538	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
539	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
540	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
541	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
542	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
543	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
544	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
545	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
546	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
547	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
548	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
549	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
550	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
551	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
552	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
553	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
554	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
555	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
556	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
557	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
558	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
559	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
560	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
561	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
562	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
563	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
564	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
565	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3
566	R00Y, 0.75, 0.75	0.75	0.0	0.75	33.5	36.5	-36.1	51.4	31.5	39.3	47.0	39.3

Mean color difference of this page:

delta E* = 12.4

TUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=1, cmyk
input: *rgb/cmyk* -> *rgb*
output: transfer to *cmyk*

see similar files: <http://130.149.60.45/~farbmatrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

<http://130.149.60.45/~farbmatrik/SE19/SE19L0NP.PDF> /PS; transfer output N; no 3D-linearization (OL) in file (F) or PS-startup (S), page 27/33

TUB-test chart SE19; 1080 standard colours
colors and differences. ΔE^* , 3D=0, de=1, cm

input: *rgb/cmyk* → *rgbe*
output: transfer to *cmyk_e*

n	HIC-Fe	rgb-Fe	1c1-Fe	hsa-Fe	LabCh-Fe	LabCh-Fe	rgb-Fe	LabCh-Fe	DE-Fe	hsa-Fe	rgb-Fe	LabCh-Fe	LabCh-Fe						
567	R00Y_087_087e	0.875	0.0	0.875	0.875	0.437	390	44.5	49.0	23.3	54.3	25.4	0.875	0.0	0.263	47.5	56.0	62.1	25.4
568	R36Y_087_087e	0.875	0.0	0.875	0.875	0.437	382	44.5	50.3	54.3	52.5	51.3	0.875	0.0	0.408	47.5	57.5	17.1	60.0
569	R20Y_087_087e	0.875	0.0	0.875	0.875	0.437	374	44.5	52.4	52.5	52.5	51.3	0.875	0.0	0.0396	47.5	59.9	8.0	60.4
570	R33Y_087_087e	0.875	0.0	0.875	0.875	0.437	365	44.5	55.5	-2.2	55.6	37.6	0.875	0.0	0.0396	47.5	63.4	-2.6	63.5
571	B70R_087_087e	0.875	0.0	0.875	0.875	0.437	355	44.5	57.2	-7.7	57.8	35.2	0.875	0.0	0.0818	47.5	65.4	-8.8	66.0
572	B63R_087_087e	0.875	0.0	0.875	0.875	0.437	346	44.5	52.5	-15.2	54.6	34.3	0.875	0.0	0.455	60.0	-17.4	34.7	34.7
573	B56R_087_087e	0.875	0.0	0.875	0.875	0.437	338	44.5	46.4	-20.9	50.8	32.6	0.875	0.0	0.584	0.0	-23.4	58.0	336.1
574	B50R_087_087e	0.875	0.0	0.875	0.875	0.437	330	44.5	40.9	-24.9	47.9	32.6	0.875	0.0	0.485	0.0	-28.5	54.7	328.6
575	B44R_100_100e	0.875	0.0	1.0	0.875	0.437	323	44.5	32.1	52.6	32.1	32.1	0.875	0.0	0.455	0.0	36.1	41.4	321.9
576	R13Y_087_087e	0.875	0.125	0.875	0.875	0.437	316	44.5	49.8	-34.1	60.4	34.3	0.875	0.0	0.0012	0.0	48.0	57.0	32.4
577	R00Y_087_075e	0.875	0.125	0.875	0.125	0.437	310	44.5	50.6	42.0	46.5	25.4	0.875	0.125	0.0	0.263	47.5	56.0	62.1
578	R35Y_087_075e	0.875	0.125	0.875	0.125	0.437	303	44.5	43.3	11.9	45.0	15.4	0.875	0.125	0.0	0.423	47.5	57.8	15.9
579	R18Y_087_075e	0.875	0.125	0.875	0.125	0.437	296	44.5	35.4	45.9	35.0	4.3	0.875	0.125	0.0	0.588	47.5	61.1	4.3
580	R00Y_087_075e	0.875	0.125	0.875	0.125	0.437	289	44.5	27.5	49.1	35.0	4.3	0.875	0.125	0.0	0.0827	47.5	61.1	4.3
581	B65R_087_075e	0.875	0.125	0.875	0.125	0.437	282	44.5	19.6	-6.8	48.3	34.6	0.875	0.125	0.0	0.941	0.0	9.1	66.2
582	B57R_087_075e	0.875	0.125	0.875	0.125	0.437	275	44.5	11.9	-17.0	43.8	33.7	0.875	0.125	0.0	0.470	63.0	-14.9	64.7
583	B50R_087_075e	0.875	0.125	0.875	0.125	0.437	268	44.5	4.3	-40.9	40.9	33.7	0.875	0.125	0.0	0.413	53.8	-22.7	58.4
584	B43R_100_087e	0.875	0.125	1.0	0.875	0.437	261	44.5	35.4	-28.8	45.9	32.1	0.875	0.125	0.0	0.588	0.0	-28.5	54.7
585	R26Y_087_087e	0.875	0.25	0.875	0.146	0.437	254	44.5	27.5	43.3	35.7	32.1	0.875	0.25	0.0	0.357	40.8	-33.0	52.4
586	R15Y_087_087e	0.875	0.25	0.875	0.146	0.437	247	44.5	19.6	46.4	33.7	32.1	0.875	0.25	0.0	0.138	0.0	52.6	53.0
587	R00Y_087_062e	0.875	0.25	0.875	0.146	0.437	240	44.5	11.9	-17.0	43.8	33.7	0.875	0.25	0.0	0.470	63.0	-14.9	64.7
588	R31Y_087_062e	0.875	0.25	0.875	0.146	0.437	233	44.5	4.3	-40.9	40.9	33.7	0.875	0.25	0.0	0.413	53.8	-22.7	58.4
589	B69R_087_062e	0.875	0.25	0.875	0.146	0.437	226	44.5	4.3	-40.9	40.9	33.7	0.875	0.25	0.0	0.413	53.8	-22.7	58.4
590	B69R_087_062e	0.875	0.25	0.875	0.146	0.437	219	44.5	4.3	-40.9	40.9	33.7	0.875	0.25	0.0	0.413	53.8	-22.7	58.4
591	B59R_087_062e	0.875	0.25	0.875	0.146	0.437	212	44.5	4.3	-40.9	40.9	33.7	0.875	0.25	0.0	0.413	53.8	-22.7	58.4
592	B59R_087_062e	0.875	0.25	0.875	0.146	0.437	205	44.5	4.3	-40.9	40.9	33.7	0.875	0.25	0.0	0.413	53.8	-22.7	58.4
593	B42R_100_075e	0.875	0.25	1.0	0.875	0.437	198	44.5	35.4	-28.8	45.9	32.1	0.875	0.25	0.0	0.588	0.0	-28.5	54.7
594	R13Y_087_075e	0.875	0.375	0.875	0.146	0.437	191	44.5	27.5	43.3	35.7	32.1	0.875	0.375	0.0	0.357	40.8	-33.0	52.4
595	R31Y_087_075e	0.875	0.375	0.875	0.146	0.437	184	44.5	19.6	46.4	33.7	32.1	0.875	0.375	0.0	0.470	63.0	-14.9	64.7
596	R18Y_087_075e	0.875	0.375	0.875	0.146	0.437	177	44.5	11.9	-17.0	43.8	33.7	0.875	0.375	0.0	0.413	53.8	-22.7	58.4
597	R00Y_087_050e	0.875	0.375	0.875	0.146	0.437	170	44.5	4.3	-40.9	40.9	33.7	0.875	0.375	0.0	0.413	53.8	-22.7	58.4
598	R00Y_087_050e	0.875	0.375	0.875	0.146	0.437	163	44.5	4.3	-40.9	40.9	33.7	0.875	0.375	0.0	0.413	53.8	-22.7	58.4
599	R00Y_087_050e	0.875	0.375	0.875	0.146	0.437	156	44.5	4.3	-40.9	40.9	33.7	0.875	0.375	0.0	0.413	53.8	-22.7	58.4
600	B61R_087_050e	0.875	0.375	0.875	0.146	0.437	149	44.5	4.3	-40.9	40.9	33.7	0.875	0.375	0.0	0.413	53.8	-22.7	58.4
601	B50R_087_050e	0.875	0.375	0.875	0.146	0.437	142	44.5	4.3	-40.9	40.9	33.7	0.875	0.375	0.0	0.413	53.8	-22.7	58.4
602	B40R_100_062e	0.875	0.375	1.0	0.875	0.437	135	44.5	35.4	-28.8	45.9	32.1	0.875	0.375	0.0	0.588	0.0	-28.5	54.7
603	R58Y_087_087e	0.875	0.5	0.875	0.875	0.437	128	44.5	27.5	43.3	35.7	32.1	0.875	0.5	0.0	0.357	40.8	-33.0	52.4
604	R58Y_087_087e	0.875	0.5	0.875	0.875	0.437	121	44.5	19.6	46.4	33.7	32.1	0.875	0.5	0.0	0.470	63.0	-14.9	64.7
605	R38Y_087_062e	0.875	0.5	0.875	0.875	0.437	114	44.5	11.9	-17.0	43.8	33.7	0.875	0.5	0.0	0.413	53.8	-22.7	58.4
606	R20Y_087_050e	0.875	0.5	0.875	0.875	0.437	107	44.5	4.3	-40.9	40.9	33.7	0.875	0.5	0.0	0.413	53.8	-22.7	58.4
607	R00Y_087_037e	0.875	0.5	0.875	0.875	0.437	100	44.5	4.3	-40.9	40.9	33.7	0.875	0.5	0.0	0.413	53.8	-22.7	58.4
608	R18Y_087_037e	0.875	0.5	0.875	0.875	0.437	93	44.5	4.3	-40.9	40.9	33.7	0.875	0.5	0.0	0.413	53.8	-22.7	58.4
609	B65R_087_037e	0.875	0.5	0.875	0.875	0.437	86	44.5	4.3	-40.9	40.9	33.7	0.875	0.5	0.0	0.413	53.8	-22.7	58.4
610	B50R_087_037e	0.875	0.5	0.875	0.875	0.437	79	44.5	4.3	-40.9	40.9	33.7	0.875	0.5	0.0	0.413	53.8	-22.7	58.4
611	B38R_100_050e	0.875	0.5	1.0	0.875	0.437	72	44.5	35.4	-28.8	45.9	32.1	0.875	0.5	0.0	0.588	0.0	-28.5	54.7
612	R73Y_087_087e	0.875	0.625	0.875	0.875	0.437	65	44.5	27.5	43.3	35.7	32.1	0.875	0.625	0.0	0.357	40.8	-33.0	52.4
613	R63Y_087_087e	0.875	0.625	0.875	0.875	0.437	58	44.5	19.6	46.4	33.7	32.1	0.875	0.625	0.0	0.470	63.0	-14.9	64.7
614	R61Y_087_062e	0.875	0.625	0.875	0.875	0.437	51	44.5	11.9	-17.0	43.8	33.7	0.875	0.625	0.0	0.413	53.8	-22.7	58.4
615	R50Y_087_050e	0.875	0.625	0.875	0.875	0.437	44	44.5	4.3	-40.9	40.9	33.7	0.875	0.625	0.0	0.413	53.8	-22.7	58.4
616	R31Y_087_037e	0.875	0.625	0.875	0.875	0.437	37	44.5	4.3	-40.9	40.9	33.7	0.875	0.625	0.0	0.413	53.8	-22.7	58.4
617	R00Y_087_025e	0.875	0.625	0.875	0.875	0.437	30	44.5	4.3	-40.9	40.9	33.7	0.875	0.625	0.0	0.413	53.8	-22.7	58.4
618	R00Y_087_025e	0.875	0.625	0.875	0.875	0.437	23	44.5	4.3	-40.9	40.9	33.7	0.875	0.625	0.0	0.413	53.8	-22.7	58.4
619	B50R_087_025e	0.875	0.625	0.875	0.875	0.437	16	44.5	4.3	-40.9	40.9	33.7	0.875	0.625	0.0	0.413	53.8	-22.7	58.4
620	B34R_100_037e	0.875	0.625	1.0	0.875	0.437	9	44.5	35.4	-28.8	45.9	32.1	0.875	0.625	0.0	0.588	0.0	-28.5	54.7
621	R86Y_087_087e	0.875	0.75	0.875	0.875	0.437	2	44.5	27.5	43.3	35.7	32.1	0.875	0.75	0.0	0.357	40.8	-33.0	52.4
622	R85Y_087_087e	0.875	0.75	0.875	0.875	0.437	-5	44.5	19.6	46.4	33.7	32.1	0.875	0.75	0.0	0.470	63.0	-14.9	64.7
623	R81Y_087_062e	0.875	0.75	0.875	0.875	0.437	-12	44.5	11.9	-17.0	43.8	33.7	0.875	0.75	0.0	0.413	53.8	-22.7	58.4
624	R76Y_087_037e	0.875	0.75	0.875	0.875	0.437	-19	44.5	4.3	-40.9	40.9	33.7	0.875	0.75	0.0	0.413	53.8	-22.7	58.4
625	R68Y_087_037e	0.875	0.75	0.875	0.875	0.437	-26	44.5	4.3	-40.9	40.9	33.7	0.875	0.75	0.0	0.413	53.8	-22.7	58.4
626	R50Y_087_012e	0.875	0.75	0.875	0.875	0.437	-33	44.5	4.3	-40.9	40.9	33.7	0.875	0.75	0.0	0.413	53.8	-22.7	58.4
627	R00Y_087_012e	0.875	0.75	0.875	0.875	0.437	-40	44.5	4.3	-40.9	40.9	33.7	0.875	0.75	0.0	0.413	53.8	-22.7	58.4
628	B50R_087_012e	0.875	0.75	0.875	0.875	0.437	-47	44.5	4.3	-40.9	40.9	33.7	0.875	0.75	0.0	0.413	53.8	-22.7	58.4
629	B25R_100_025e	0.875	0.75	1.0	0.875	0.437	-54	44.5	35.4	-28.8	45.9	32.1	0.875	0.75	0.0	0.588	0.0	-28.5	54.7
630	Y00C_087_075e																		

see similar files: <http://130.149.60.45/~farbmatrik/SE19/SE19.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

http://130.149.60.45/~farbmatrik/SE19/SE19L0NP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 28/33

TUB-test chart SE19; 1080 standard colours

input: *rgb/cmyk* → *rgbe*
output: transfer to *cmvke*

	n	HIC-Fe	rgb^*Fe	$icL-Fe$	ha_F-Fe	rgb^*Fe	$LabCh^*Fe$	$LabCh^*Fe$	rgb^*Fe	DF^*Fe	$haMe$	rgb^*Me	$LabCh^*Me$																				
648	648	R00Y_100_100e	1.0	0.0	0.0	1.0	0.0	390	25.4	62.1	37.8	68.6	33.4	11.1	375	1.0	0.0	0.263	47.5	56.0	26.7	62.1	25.4										
649	649	R36Y_100_100e	1.0	0.0	0.383	1.0	0.0	383	17.6	57.2	34.8	65.3	57.2	37.8	68.6	33.4	11.1	0.0	0.392	47.4	57.2	18.2	60.0	17.6									
650	650	R26Y_100_100e	1.0	0.0	0.376	1.0	0.0	376	59.9	10.2	59.9	9.8	55.9	27.5	62.3	26.2	17.5	0.0	0.501	47.8	59.0	10.2	59.9	9.8									
651	651	R13Y_100_100e	1.0	0.0	0.368	1.0	0.0	368	62.2	0.9	62.2	0.9	56.8	19.5	60.3	18.9	19.2	0.0	0.641	48.1	62.2	1.0	62.2	0.9									
652	652	R00Y_100_100e	1.0	0.0	0.5	1.0	0.0	0.827	352.0	-9.1	66.2	352.0	47.8	58.9	10.0	20.7	33.9	1.0	0.0	0.827	49.4	65.5	-9.1	66.2	352.0								
653	653	B68R_100_100e	1.0	0.0	0.625	1.0	0.0	0.964	48.5	65.6	-12.2	66.7	48.5	65.6	19.0	14.8	33.1	0.0	0.0	0.964	48.5	65.6	-12.2	66.7	349.4								
654	654	B61R_100_100e	1.0	0.0	0.5	1.0	0.0	0.94	48.2	64.1	-19.0	61.2	341.8	61.8	21.1	61.8	19.0	0.0	0.0	0.964	48.5	65.6	-12.2	66.7	349.4								
655	655	B55R_100_100e	1.0	0.0	0.5	1.0	0.0	0.94	48.2	64.1	-19.0	61.2	341.8	61.8	21.1	61.8	19.0	0.0	0.0	0.964	48.5	65.6	-12.2	66.7	349.4								
656	656	B50R_100_100e	1.0	0.0	0.5	1.0	0.0	0.94	48.2	64.1	-19.0	61.2	341.8	61.8	21.1	61.8	19.0	0.0	0.0	0.964	48.5	65.6	-12.2	66.7	349.4								
657	657	R11Y_100_100e	1.0	0.0	0.5	1.0	0.0	0.94	48.2	64.1	-19.0	61.2	341.8	61.8	21.1	61.8	19.0	0.0	0.0	0.964	48.5	65.6	-12.2	66.7	349.4								
658	658	R00Y_100_087e	1.0	0.125	1.0	0.125	0.355	53.5	50.3	343	343	1.0	0.125	0.355	53.5	50.3	34.3	1.0	0.0	0.012	47.5	57.1	37.5	683	33.2								
659	659	R36Y_100_087e	1.0	0.125	1.0	0.125	0.582	53.5	50.3	329	329	1.0	0.125	0.582	53.5	50.3	32.9	1.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2							
660	660	R23Y_100_087e	1.0	0.125	1.0	0.125	0.594	53.8	52.4	366	366	1.0	0.125	0.594	53.8	52.4	36.6	1.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2						
661	661	R08Y_100_087e	1.0	0.125	1.0	0.125	0.562	36.5	51.0	357	357	1.0	0.125	0.562	36.5	51.0	35.7	1.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2					
662	662	B70R_100_087e	1.0	0.125	1.0	0.125	0.841	55.2	57.2	347	347	1.0	0.125	0.841	55.2	57.2	34.7	1.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2				
663	663	B63R_100_087e	1.0	0.125	1.0	0.125	0.562	34.6	50.8	339	339	1.0	0.125	0.562	34.6	50.8	33.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2			
664	664	B56R_100_087e	1.0	0.125	1.0	0.125	0.562	33.8	50.8	331	331	1.0	0.125	0.562	33.8	50.8	33.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2		
665	665	B50R_100_087e	1.0	0.125	1.0	0.125	0.562	33.0	50.8	324	324	1.0	0.125	0.562	33.0	50.8	32.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2	
666	666	R23Y_100_100e	1.0	0.25	1.0	0.25	0.108	0.0	45.6	47.9	326	326	1.0	0.25	0.108	0.0	45.6	47.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2	
667	667	R13Y_100_100e	1.0	0.25	1.0	0.25	0.136	0.0	51.4	44.8	341	341	1.0	0.25	0.136	0.0	51.4	44.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
668	668	R00Y_100_075e	1.0	0.25	1.0	0.25	0.467	59.6	42.0	377	377	1.0	0.25	0.467	59.6	42.0	37.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
669	669	R35Y_100_075e	1.0	0.25	1.0	0.25	0.567	59.6	42.0	377	377	1.0	0.25	0.567	59.6	42.0	37.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
670	670	R18Y_100_075e	1.0	0.25	1.0	0.25	0.691	59.9	45.8	3.4	45.9	43.3	56.8	49.3	23.4	54.6	25.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
671	671	R00Y_100_075e	1.0	0.25	1.0	0.25	0.691	59.9	45.8	3.4	45.9	43.3	56.8	49.3	23.4	54.6	25.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
672	672	B65R_100_075e	1.0	0.25	1.0	0.25	0.939	62.5	1.0	54.9	40.4	43.3	56.8	49.3	23.4	54.6	25.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
673	673	B57R_100_075e	1.0	0.25	1.0	0.25	0.939	62.5	1.0	54.9	40.4	43.3	56.8	49.3	23.4	54.6	25.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
674	674	B50R_100_075e	1.0	0.25	1.0	0.25	0.939	62.5	1.0	54.9	40.4	43.3	56.8	49.3	23.4	54.6	25.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
675	675	B43Y_100_075e	1.0	0.25	1.0	0.25	0.939	62.5	1.0	54.9	40.4	43.3	56.8	49.3	23.4	54.6	25.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
676	676	R36Y_100_100e	1.0	0.375	1.0	0.375	0.125	58.0	46.4	43.7	63.7	43.3	63.7	43.3	63.7	43.3	63.7	18.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
677	677	R15Y_100_075e	1.0	0.375	1.0	0.375	0.125	58.0	46.4	43.7	63.7	43.3	63.7	43.3	63.7	43.3	63.7	18.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
678	678	R00Y_100_062e	1.0	0.625	1.0	0.625	0.687	39.0	35.0	42.5	30.2	35.5	33.3	33.3	49.9	59.3	55.8	21.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
679	679	R31Y_100_062e	1.0	0.625	1.0	0.625	0.687	37.9	35.0	42.5	30.2	35.5	33.3	33.3	49.9	59.3	55.8	21.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
680	680	R11Y_100_062e	1.0	0.625	1.0	0.625	0.687	36.7	35.0	42.5	30.2	35.5	33.3	33.3	49.9	59.3	55.8	21.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
681	681	B68R_100_062e	1.0	0.625	1.0	0.625	0.687	35.3	35.0	42.5	30.2	35.5	33.3	33.3	49.9	59.3	55.8	21.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
682	682	B59R_100_062e	1.0	0.625	1.0	0.625	0.687	34.1	35.0	42.5	30.2	35.5	33.3	33.3	49.9	59.3	55.8	21.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
683	683	B50R_100_062e	1.0	0.625	1.0	0.625	0.687	33.0	35.0	42.5	30.2	35.5	33.3	33.3	49.9	59.3	55.8	21.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
684	684	B43Y_100_062e	1.0	0.625	1.0	0.625	0.687	31.8	35.0	42.5	30.2	35.5	33.3	33.3	49.9	59.3	55.8	21.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
685	685	R36Y_100_100e	1.0	0.75	1.0	0.75	0.562	49.1	1.0	0.388	0.125	62.9	58.2	62.9	66.1	66.1	66.1	18.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
686	686	R41Y_100_075e	1.0	0.75	1.0	0.75	0.562	49.1	1.0	0.388	0.125	62.9	58.2	62.9	66.1	66.1	66.1	18.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
687	687	R18Y_100_062e	1.0	0.75	1.0	0.75	0.562	49.1	1.0	0.388	0.125	62.9	58.2	62.9	66.1	66.1	66.1	18.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
688	688	R00Y_100_050e	1.0	0.75	1.0	0.75	0.562	49.1	1.0	0.388	0.125	62.9	58.2	62.9	66.1	66.1	66.1	18.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
689	689	R26Y_100_050e	1.0	0.75	1.0	0.75	0.562	49.1	1.0	0.388	0.125	62.9	58.2	62.9	66.1	66.1	66.1	18.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
690	690	R00Y_100_050e	1.0	0.75	1.0	0.75	0.562	49.1	1.0	0.388	0.125	62.9	58.2	62.9	66.1	66.1	66.1	18.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	47.5	57.1	37.5	683	33.2
691	691	B61R_100_050e	1.0	0.75	1.0	0.75																											

n	HC*Fe	rgb_Fe	icr_Fe	hsa_Fa	rgb_Fe	LabCh*Fe	LabCh*Fe	rgb_Fe	LabCh*Fe	DF*Fe	hsa_Fe	rgb_Fe	LabCh*Fe	LabCh*Fe
729	NW_100%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
730	G50B_100.012%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
731	G50B_100.025%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
732	G50B_100.037%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
733	G50B_100.050%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
734	G50B_100.062%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
735	G50B_100.075%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
736	G50B_100.087%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2
737	G50B_100.100%	0.875	1.0	1.0	1.0	1.075	1.075	1.0	1.075	0.2	360	1.0	1.075	0.2
738	ROY_100.012%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
739	ROY_100.025%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
740	ROY_100.037%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
741	ROY_100.050%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
742	ROY_100.062%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
743	ROY_100.075%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
744	ROY_100.087%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
745	ROY_100.100%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2
746	ROY_100.012%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
747	ROY_100.025%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
748	ROY_100.037%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
749	ROY_100.050%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
750	ROY_100.062%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
751	ROY_100.075%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
752	ROY_100.087%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
753	ROY_100.100%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2
754	ROY_100.012%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
755	ROY_100.025%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
756	ROY_100.037%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
757	ROY_100.050%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
758	ROY_100.062%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
759	ROY_100.075%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
760	ROY_100.087%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
761	ROY_100.100%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2
762	ROY_100.012%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
763	ROY_100.025%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
764	ROY_100.037%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
765	ROY_100.050%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
766	ROY_100.062%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
767	ROY_100.075%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
768	ROY_100.087%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
769	ROY_100.100%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2
770	ROY_100.012%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
771	ROY_100.025%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
772	ROY_100.037%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
773	ROY_100.050%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
774	ROY_100.062%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
775	ROY_100.075%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
776	ROY_100.087%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
777	ROY_100.100%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2
778	ROY_100.012%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
779	ROY_100.025%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
780	ROY_100.037%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
781	ROY_100.050%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
782	ROY_100.062%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
783	ROY_100.075%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
784	ROY_100.087%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
785	ROY_100.100%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2
786	ROY_100.012%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
787	ROY_100.025%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
788	ROY_100.037%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
789	ROY_100.050%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
790	ROY_100.062%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
791	ROY_100.075%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
792	ROY_100.087%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
793	ROY_100.100%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2
794	ROY_100.012%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
795	ROY_100.025%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
796	ROY_100.037%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
797	ROY_100.050%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
798	ROY_100.062%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
799	ROY_100.075%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
800	ROY_100.087%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
801	ROY_100.100%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2
802	ROY_100.012%	0.875	1.0	1.0	1.0	0.958	0.958	1.0	0.958	0.2	360	1.0	0.958	0.2
803	ROY_100.025%	0.875	1.0	1.0	1.0	0.973	0.973	1.0	0.973	0.2	360	1.0	0.973	0.2
804	ROY_100.037%	0.875	1.0	1.0	1.0	0.988	0.988	1.0	0.988	0.2	360	1.0	0.988	0.2
805	ROY_100.050%	0.875	1.0	1.0	1.0	1.000	1.000	1.0	1.000	0.2	360	1.0	1.000	0.2
806	ROY_100.062%	0.875	1.0	1.0	1.0	1.015	1.015	1.0	1.015	0.2	360	1.0	1.015	0.2
807	ROY_100.075%	0.875	1.0	1.0	1.0	1.030	1.030	1.0	1.030	0.2	360	1.0	1.030	0.2
808	ROY_100.087%	0.875	1.0	1.0	1.0	1.045	1.045	1.0	1.045	0.2	360	1.0	1.045	0.2
809	ROY_100.100%	0.875	1.0	1.0	1.0	1.060	1.060	1.0	1.060	0.2	360	1.0	1.060	0.2

Mean color difference of this page:

$\Delta E^* = 11.3$

input: $rgb/cmyk \rightarrow rgb$
output: transfer to $cmyk$

n	HC*Fe	rgb_Fe	icL_Fe	hsa_Fa	rgb_Fe	LabCH*Fe	LabCH*Fe	rgb_Fe	DF*Fe	hsa_Fe	rgb_Fe	LabCH*Fe
972	NW_000e	0.0	0.0	0.0	0.0	0.0	22.5	0.0	49.6	1.3	360	958
973	NW_012e	0.125	0.125	0.125	0.125	0.125	26.8	0.0	0.3	272.9	5.9	0.0
974	NW_025e	0.25	0.25	0.25	0.25	0.25	39.6	0.0	-0.3	266.3	2.4	0.0
975	NW_037e	0.375	0.375	0.375	0.375	0.375	50.8	0.0	-1.1	265.7	1.2	0.0
976	NW_050e	0.5	0.5	0.5	0.5	0.5	60.6	0.0	-1.1	268.6	1.4	0.0
977	NW_062e	0.625	0.625	0.625	0.625	0.625	68.8	0.0	-1.0	266.5	3.5	0.0
978	NW_075e	0.75	0.75	0.75	0.75	0.75	77.8	0.0	-0.6	266.9	4.6	0.0
979	NW_087e	0.875	0.875	0.875	0.875	0.875	86.8	0.0	-0.2	248.4	0.2	0.0
980	NW_100e	1.0	1.0	1.0	1.0	1.0	95.8	0.0	-0.1	233.6	0.2	0.0
981	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	0.0	320.1	3.1	0.0
982	NW_012e	0.125	0.125	0.125	0.125	0.125	28.4	0.0	-0.3	273.4	4.4	0.0
983	NW_025e	0.25	0.25	0.25	0.25	0.25	40.5	0.0	-1.1	267.1	1.7	0.0
984	NW_037e	0.375	0.375	0.375	0.375	0.375	50.9	0.0	-1.2	268.0	1.2	0.0
985	NW_050e	0.5	0.5	0.5	0.5	0.5	61.3	0.0	-1.2	269.0	1.9	0.0
986	NW_062e	0.625	0.625	0.625	0.625	0.625	72.8	0.0	-1.1	268.3	4.1	0.0
987	NW_075e	0.75	0.75	0.75	0.75	0.75	82.1	0.0	-0.6	269.6	4.3	0.0
988	NW_087e	0.875	0.875	0.875	0.875	0.875	91.4	0.0	-0.2	264.1	5.1	0.0
989	NW_100e	1.0	1.0	1.0	1.0	1.0	95.9	-0.1	0.0	206.3	0.2	0.0
990	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	0.1	60.9	0.5	0.0
991	NW_012e	0.125	0.125	0.125	0.125	0.125	28.8	0.0	-0.3	283.8	3.9	0.0
992	NW_025e	0.25	0.25	0.25	0.25	0.25	39.9	0.0	-1.0	268.4	2.1	0.0
993	NW_037e	0.375	0.375	0.375	0.375	0.375	51.0	0.0	-1.1	270.7	1.1	0.0
994	NW_050e	0.5	0.5	0.5	0.5	0.5	60.9	0.0	-1.0	270.4	1.5	0.0
995	NW_062e	0.625	0.625	0.625	0.625	0.625	72.5	0.0	-1.1	271.0	3.8	0.0
996	NW_075e	0.75	0.75	0.75	0.75	0.75	82.1	0.0	-0.6	272.6	4.3	0.0
997	NW_087e	0.875	0.875	0.875	0.875	0.875	91.4	0.0	-0.3	272.0	5.0	0.0
998	NW_100e	1.0	1.0	1.0	1.0	1.0	96.1	-0.1	0.0	278.6	2.7	0.0
999	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	0.1	67.1	0.9	0.0
1000	NW_012e	0.125	0.125	0.125	0.125	0.125	28.4	0.0	-0.2	280.7	6.8	0.0
1001	NW_025e	0.25	0.25	0.25	0.25	0.25	39.6	0.0	-0.8	266.7	2.4	0.0
1002	NW_037e	0.375	0.375	0.375	0.375	0.375	50.1	0.0	-1.0	267.9	1.2	0.0
1003	NW_050e	0.5	0.5	0.5	0.5	0.5	60.3	0.0	-0.9	268.1	3.0	0.0
1004	NW_062e	0.625	0.625	0.625	0.625	0.625	72.2	0.0	-0.9	268.5	3.5	0.0
1005	NW_075e	0.75	0.75	0.75	0.75	0.75	81.9	0.0	-0.5	268.1	4.1	0.0
1006	NW_087e	0.875	0.875	0.875	0.875	0.875	91.7	0.0	-0.1	258.6	4.9	0.0
1007	NW_100e	1.0	1.0	1.0	1.0	1.0	96.1	-0.2	0.0	162.0	0.3	0.0
1008	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	0.3	84.0	6.9	0.0
1009	NW_012e	0.125	0.125	0.125	0.125	0.125	28.4	0.0	0.2	63.9	8.8	0.0
1010	NW_025e	0.25	0.25	0.25	0.25	0.25	39.6	0.0	-0.8	265.4	5.1	0.0
1011	NW_037e	0.375	0.375	0.375	0.375	0.375	50.8	0.0	-1.3	264.5	2.0	0.0
1012	NW_050e	0.5	0.5	0.5	0.5	0.5	60.6	0.0	-1.2	265.5	1.4	0.0
1013	NW_062e	0.625	0.625	0.625	0.625	0.625	72.2	0.0	-1.0	270.1	2.4	0.0
1014	NW_075e	0.75	0.75	0.75	0.75	0.75	81.9	0.0	-1.2	267.1	2.6	0.0
1015	NW_087e	0.875	0.875	0.875	0.875	0.875	91.7	0.0	-1.1	268.4	3.4	0.0
1016	NW_100e	1.0	1.0	1.0	1.0	1.0	96.1	0.0	-0.8	267.4	3.9	0.0
1017	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	-0.4	263.3	4.3	0.0
1018	NW_012e	0.125	0.125	0.125	0.125	0.125	28.4	0.0	-0.1	258.0	4.0	0.0
1019	NW_025e	0.25	0.25	0.25	0.25	0.25	39.6	0.0	0.0	216.7	3.9	0.0
1020	NW_037e	0.375	0.375	0.375	0.375	0.375	50.1	0.0	0.0	173.1	3.1	0.0
1021	NW_050e	0.5	0.5	0.5	0.5	0.5	60.3	0.0	0.0	305.0	0.1	0.0
1022	NW_062e	0.625	0.625	0.625	0.625	0.625	72.2	0.0	0.2	69.9	5.2	0.0
1023	NW_075e	0.75	0.75	0.75	0.75	0.75	81.9	0.0	0.1	12.0	6.8	0.0
1024	NW_087e	0.875	0.875	0.875	0.875	0.875	91.7	0.0	-0.9	267.1	4.2	0.0
1025	NW_100e	1.0	1.0	1.0	1.0	1.0	96.1	0.0	-1.2	266.4	1.3	0.0
1026	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	-1.3	267.8	2.3	0.0
1027	NW_012e	0.125	0.125	0.125	0.125	0.125	28.4	0.0	-1.1	269.0	1.9	0.0
1028	NW_025e	0.25	0.25	0.25	0.25	0.25	39.6	0.0	-1.3	267.8	2.3	0.0
1029	NW_037e	0.375	0.375	0.375	0.375	0.375	50.1	0.0	-1.1	269.6	2.2	0.0
1030	NW_050e	0.5	0.5	0.5	0.5	0.5	60.3	0.0	-1.3	268.9	3.4	0.0
1031	NW_062e	0.625	0.625	0.625	0.625	0.625	72.2	0.0	-1.1	268.9	4.1	0.0
1032	NW_075e	0.75	0.75	0.75	0.75	0.75	81.9	0.0	-1.1	270.8	3.8	0.0
1033	NW_087e	0.875	0.875	0.875	0.875	0.875	91.7	0.0	-0.9	269.6	4.3	0.0
1034	NW_100e	1.0	1.0	1.0	1.0	1.0	96.1	0.0	-0.5	269.9	4.5	0.0
1035	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	-0.2	269.3	4.4	0.0
1036	NW_012e	0.125	0.125	0.125	0.125	0.125	28.4	0.0	-0.1	268.4	4.4	0.0
1037	NW_025e	0.25	0.25	0.25	0.25	0.25	39.6	0.0	0.0	208.1	3.2	0.0
1038	NW_037e	0.375	0.375	0.375	0.375	0.375	50.1	0.0	0.0	166.5	0.2	0.0
1039	NW_050e	0.5	0.5	0.5	0.5	0.5	60.3	0.0	0.2	63.5	4.9	0.0
1040	NW_062e	0.625	0.625	0.625	0.625	0.625	72.2	0.0	0.1	54.5	6.4	0.0
1041	NW_075e	0.75	0.75	0.75	0.75	0.75	81.9	0.0	-0.7	271.7	3.9	0.0
1042	NW_087e	0.875	0.875	0.875	0.875	0.875	91.7	0.0	-1.1	266.3	1.4	0.0
1043	NW_100e	1.0	1.0	1.0	1.0	1.0	96.1	0.0	-0.8	269.2	2.6	0.0
1044	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	-1.1	269.8	2.0	0.0
1045	NW_012e	0.125	0.125	0.125	0.125	0.125	28.4	0.0	-0.8	273.6	1.9	0.0
1046	NW_025e	0.25	0.25	0.25	0.25	0.25	39.6	0.0	-1.1	270.4	2.2	0.0
1047	NW_037e	0.375	0.375	0.375	0.375	0.375	50.1	0.0	-1.1	274.3	3.7	0.0
1048	NW_050e	0.5	0.5	0.5	0.5	0.5	60.3	0.0	-0.9	272.4	3.4	0.0
1049	NW_062e	0.625	0.625	0.625	0.625	0.625	72.2	0.0	-0.8	273.0	4.5	0.0
1050	NW_075e	0.75	0.75	0.75	0.75	0.75	81.9	0.0	-0.4	271.3	4.5	0.0
1051	NW_087e	0.875	0.875	0.875	0.875	0.875	91.7	0.0	-0.3	279.0	4.3	0.0
1052	NW_100e	1.0	1.0	1.0	1.0	1.0	96.1	0.0	0.0	95.8	0.0	0.0

Mean color difference of this page:

delta E* = 3.2

input: rgb/cmyk -> rgbe
output: transfer to cmyke

n	HC*Fe	rgb_Fe	ic*_Fe	hsa_Fa	rgb*Fe	LabCh*Fe	LabCh*Fe	rgb*Fe	DE*Fe	hsa_Fe	rgb*Fe	LabCh*Me	DE*Me	hsa_Me	rgb*Me	LabCh*Me	DE*Me
1053	NW_086e	0.866	0.866	0.866	0.866	0.866	86.1	0.0	0.0	0.0	0.866	0.866	0.866	360	1.0	0.0	0.0
1054	NW_093e	0.933	0.933	0.933	0.933	0.933	91.0	0.0	0.0	0.0	0.933	0.933	0.933	360	1.0	0.0	0.0
1055	NW_100e	1.0	1.0	1.0	1.0	1.0	95.8	0.0	0.0	0.0	1.0	1.0	1.0	360	1.0	0.0	0.0
1056	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	0.0	0.0
1057	NW_006e	0.066	0.066	0.066	0.066	0.066	28.6	0.0	0.0	0.0	0.066	0.066	0.066	360	1.0	0.0	0.0
1058	NW_013e	0.133	0.133	0.133	0.133	0.133	33.4	0.0	0.0	0.0	0.133	0.133	0.133	360	1.0	0.0	0.0
1059	NW_020e	0.2	0.2	0.2	0.2	0.2	38.2	0.0	0.0	0.0	0.2	0.2	0.2	360	1.0	0.0	0.0
1060	NW_026e	0.266	0.266	0.266	0.266	0.266	42.9	0.0	0.0	0.0	0.266	0.266	0.266	360	1.0	0.0	0.0
1061	NW_033e	0.333	0.333	0.333	0.333	0.333	47.8	0.0	0.0	0.0	0.333	0.333	0.333	360	1.0	0.0	0.0
1062	NW_040e	0.4	0.4	0.4	0.4	0.4	52.6	0.0	0.0	0.0	0.4	0.4	0.4	360	1.0	0.0	0.0
1063	NW_046e	0.466	0.466	0.466	0.466	0.466	57.3	0.0	0.0	0.0	0.466	0.466	0.466	360	1.0	0.0	0.0
1064	NW_053e	0.533	0.533	0.533	0.533	0.533	62.2	0.0	0.0	0.0	0.533	0.533	0.533	360	1.0	0.0	0.0
1065	NW_060e	0.6	0.6	0.6	0.6	0.6	67.0	0.0	0.0	0.0	0.6	0.6	0.6	360	1.0	0.0	0.0
1066	NW_066e	0.666	0.666	0.666	0.666	0.666	71.7	0.0	0.0	0.0	0.666	0.666	0.666	360	1.0	0.0	0.0
1067	NW_073e	0.734	0.734	0.734	0.734	0.734	76.6	0.0	0.0	0.0	0.734	0.734	0.734	360	1.0	0.0	0.0
1068	NW_080e	0.8	0.8	0.8	0.8	0.8	81.4	0.0	0.0	0.0	0.8	0.8	0.8	360	1.0	0.0	0.0
1069	NW_086e	0.866	0.866	0.866	0.866	0.866	86.1	0.0	0.0	0.0	0.866	0.866	0.866	360	1.0	0.0	0.0
1070	NW_093e	0.933	0.933	0.933	0.933	0.933	91.0	0.0	0.0	0.0	0.933	0.933	0.933	360	1.0	0.0	0.0
1071	NW_100e	1.0	1.0	1.0	1.0	1.0	95.8	0.0	0.0	0.0	1.0	1.0	1.0	360	1.0	0.0	0.0
1072	NW_000e	0.0	0.0	0.0	0.0	0.0	23.8	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	0.0	0.0
1073	NW_006e	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	0.0	0.0	0.0	0.0	360	1.0	0.0	0.0
1074	RO07_100_100e	1.0	1.0	1.0	1.0	1.0	95.8	0.0	0.0	0.0	1.0	1.0	1.0	360	1.0	0.0	0.0
1075	G50E_100_100e	0.0	0.0	0.0	0.0	0.0	47.5	56.0	26.7	62.1	0.0	0.263	47.5	56.0	1.0	0.0	26.7
1076	Y06E_100_100e	0.0	1.0	1.0	1.0	1.0	54.9	-38.7	-29.1	48.4	0.0	0.791	-38.7	-29.1	0.0	0.791	48.4
1077	B00E_100_100e	0.0	1.0	1.0	1.0	1.0	53.6	-3.1	76.8	76.9	0.0	0.768	76.8	76.9	0.0	0.768	76.9
1078	B00E_100_100e	0.0	1.0	1.0	1.0	1.0	53.1	-4.7	46.7	46.7	0.0	0.768	46.7	46.7	0.0	0.768	46.7
1079	B50E_100_100e	0.0	1.0	1.0	1.0	1.0	53.1	-45.9	21.1	69.2	0.0	0.768	21.1	69.2	0.0	0.768	69.2
1079	B50E_100_100e	1.0	0.0	1.0	1.0	1.0	38.5	46.7	-28.5	54.7	0.584	0.0	46.7	-28.5	0.584	0.0	54.7

Mean color difference of this page:

delta E* = 6.3

input: *rgb/cmyk* - > *rgbe*
output: transfer to *cmyke*

TUB-test chart SE19; 1080 standard colours
colors and differences, ΔE^* , 3D=0, de=1, *cmyk*