

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 102/360 = 0.28$

$H^*_ = Y25G_ -$

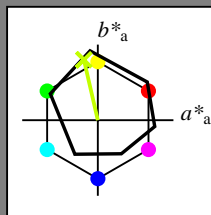
Data for any device (d) or elementary (e) colour:

$HIC^*_ -$

hue text for the colours of this page:

$H^*_ = Y25G_ -$

triangle lightness T^*



ORS18a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{-,Ma}	47.9	65.3	50.5	82.6	37
Y _{-,Ma}	90.3	-10.2	91.7	92.3	96
G _{-,Ma}	50.9	-62.8	34.9	71.9	150
C _{-,Ma}	58.6	-30.3	-45.0	54.2	236
B _{-,Ma}	25.7	31.0	-44.4	54.2	305
M _{-,Ma}	48.1	75.2	-8.3	75.7	353
N _{-,Ma}	18.0	0.0	0.0	0.0	0
W _{-,Ma}	95.4	0.0	0.0	0.0	0
R _{-,CIE}	39.9	58.7	27.9	65.0	25
Y _{-,CIE}	81.2	-2.8	71.5	71.6	92
G _{-,CIE}	52.2	-42.4	13.6	44.5	162
B _{-,CIE}	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$: 83 -18 79 81 102

$HIC^*_{-,Ma}$: Y25G_100_100_

$rgbic^*_{-,Ma}$:

0.76 1.0 0.0 1.0 1.0

triangle lightness T^*

%Gamut

$u^*_{rel} = 92$

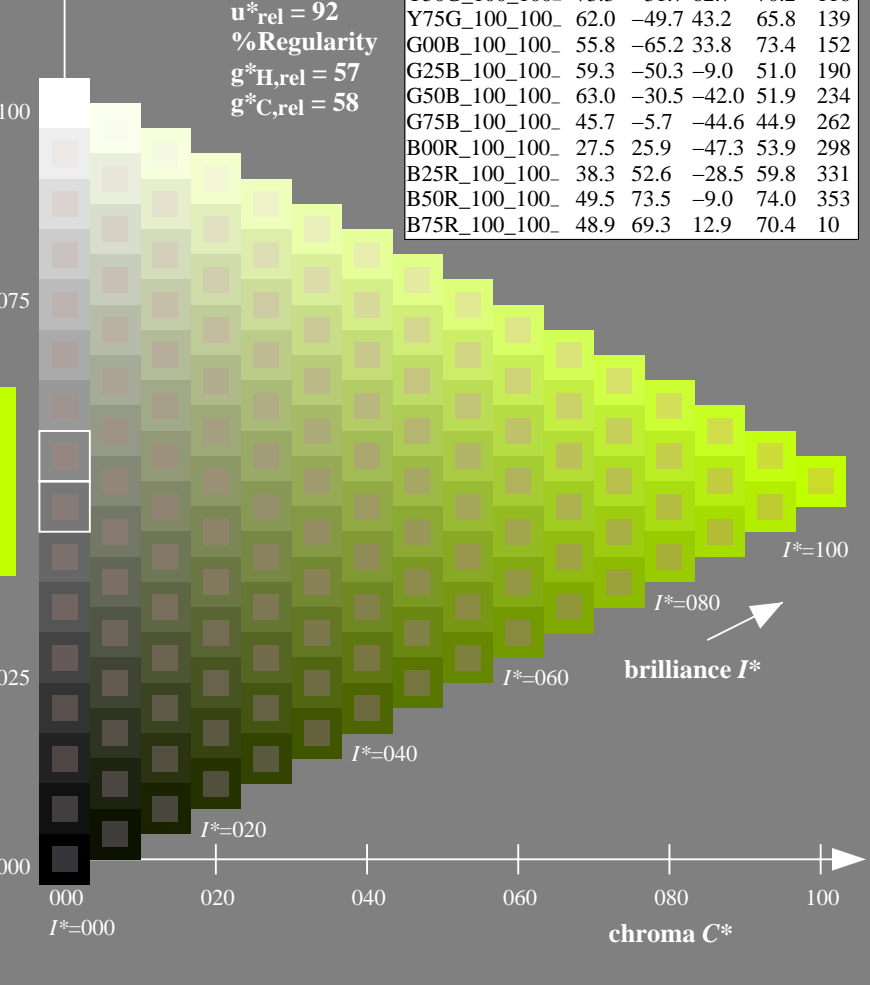
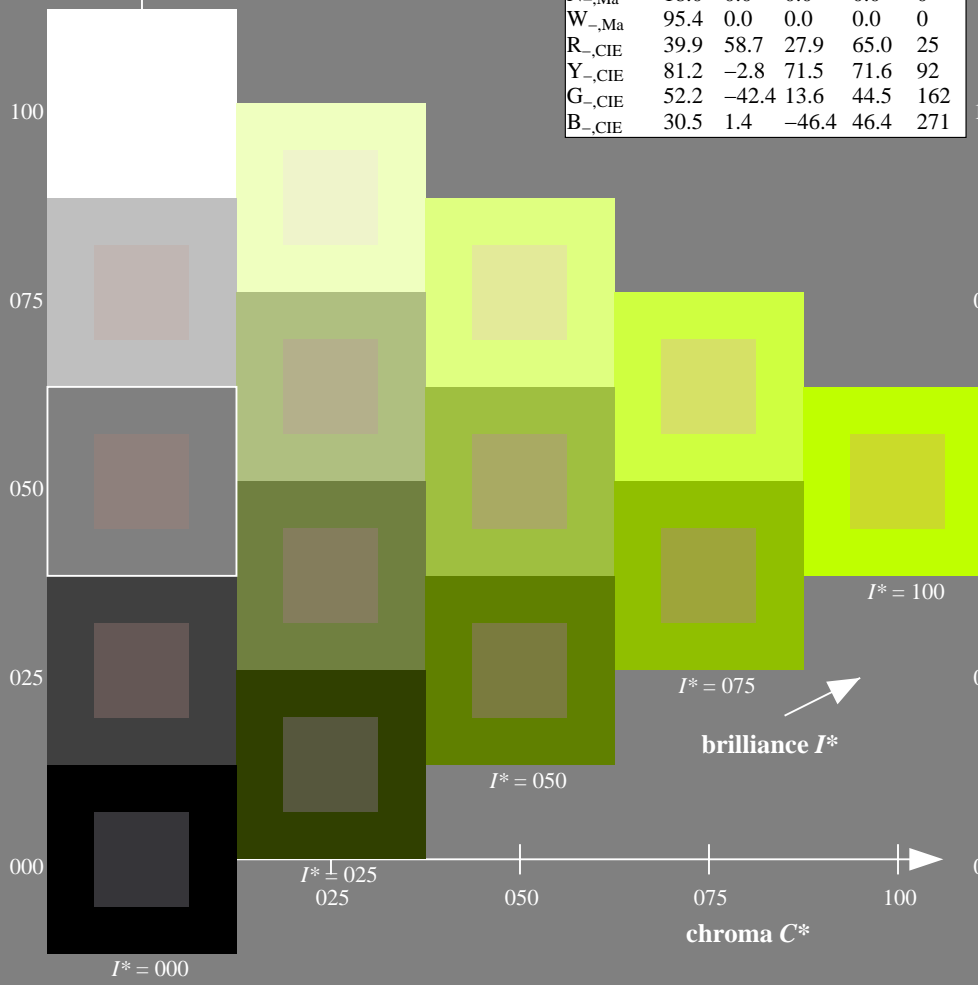
%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

ORS20a; adapted (a) CIELAB data

$H^*_ -$	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_	48.4	66.1	40.2	77.3	31
R25Y_100_100_	56.8	48.0	50.5	69.6	46
R50Y_100_100_	68.6	25.0	63.9	68.6	68
R75Y_100_100_	80.6	4.8	77.2	77.3	86
Y00G_100_100_	90.2	-9.6	88.2	88.7	96
Y25G_100_100_	83.2	-18.4	79.9	81.9	102
Y50G_100_100_	73.3	-31.7	62.7	70.2	116
Y75G_100_100_	62.0	-49.7	43.2	65.8	139
G00B_100_100_	55.8	-65.2	33.8	73.4	152
G25B_100_100_	59.3	-50.3	-9.0	51.0	190
G50B_100_100_	63.0	-30.5	-42.0	51.9	234
G75B_100_100_	45.7	-5.7	-44.6	44.9	262
B00R_100_100_	27.5	25.9	-47.3	53.9	298
B25R_100_100_	38.3	52.6	-28.5	59.8	331
B50R_100_100_	49.5	73.5	-9.0	74.0	353
B75R_100_100_	48.9	69.3	12.9	70.4	10



see similar files: <http://130.149.60.45/~farbmetrik/QE44/QE44.HTM>
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-QE44/QE44L0NP.PDF /.PS
 application for measurement of offset print output

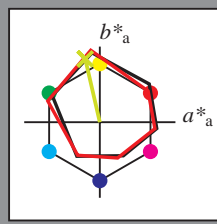
TUB material: code=rh4ta

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 102/360 = 0.28$

$H^*_d = Y25G_d$

Data for any device (d) or elementary (e) colour:

HIC^*_d
hue text for the colours of this page:
 $H^*_d = Y25G_d$
triangle lightness T^*



ORS20a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{d, Ma}	47.3	63.8	41.2	76.0	32
Y _{d, Ma}	88.3	-11.9	95.1	95.8	97
G _{d, Ma}	51.9	-68.8	28.1	74.3	157
C _{d, Ma}	58.3	-29.2	-43.7	52.6	236
B _{d, Ma}	25.3	23.5	-47.3	52.8	296
M _{d, Ma}	48.2	72.8	-8.5	73.3	353
N _{d, Ma}	17.7	0.0	0.0	0.0	0
W _{d, Ma}	95.4	0.0	0.0	0.0	0
R _{d, CIE}	39.9	58.7	27.9	65.0	25
Y _{d, CIE}	81.2	-2.8	71.5	71.6	92
G _{d, CIE}	52.2	-42.4	13.6	44.5	162
B _{d, CIE}	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{d, Ma}$: 83 -19 83 85 102

$HIC^*_{d, Ma}$: Y25G_100_100d

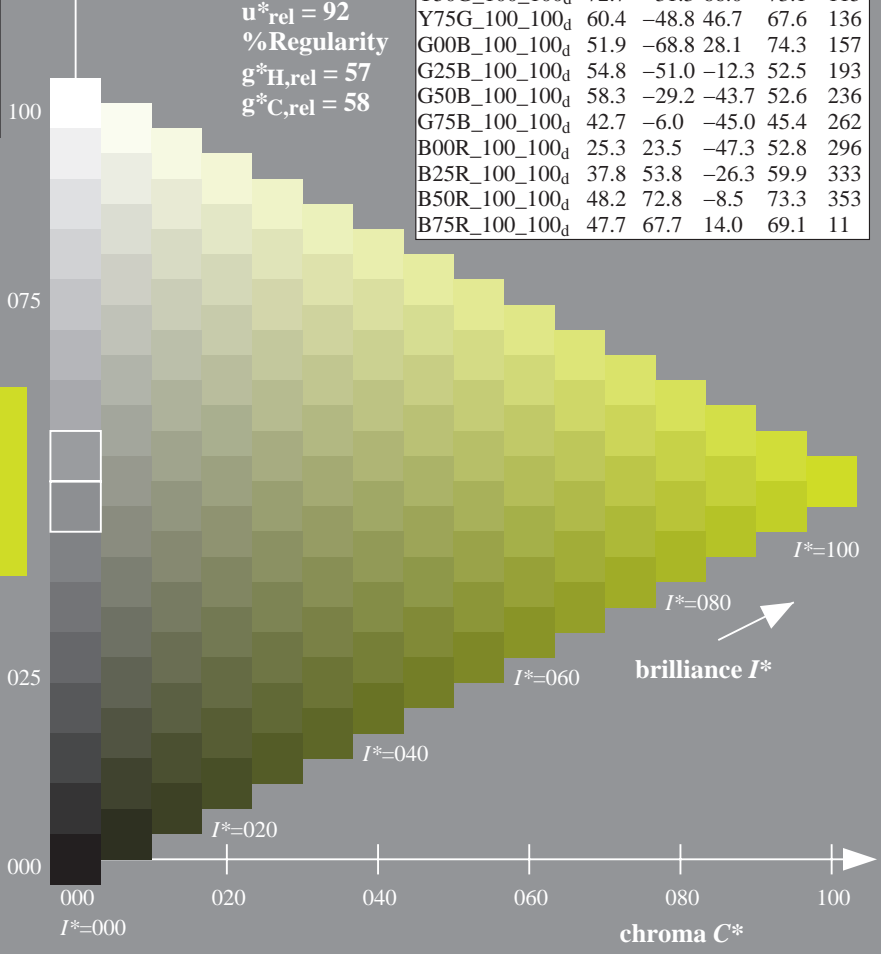
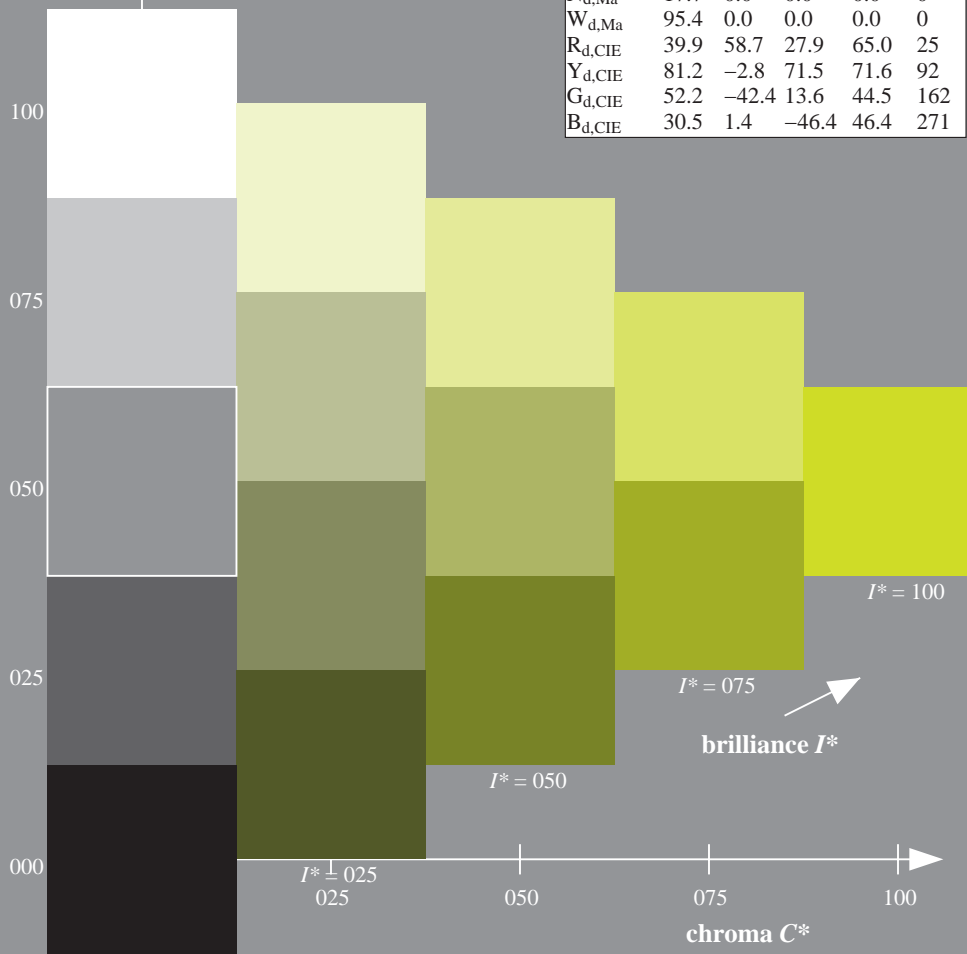
$rgbic^*_{d, Ma}$:
0.76 1.0 0.0 1.0 1.0

triangle lightness T^*

ORS20a; adapted (a) CIELAB data

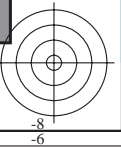
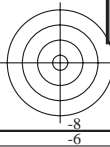
H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 _d	47.3	63.8	41.2	76.0	32
R25Y_100_100 _d	55.3	45.8	52.2	69.5	48
R50Y_100_100 _d	67.2	22.6	67.6	71.2	71
R75Y_100_100 _d	79.9	1.0	83.9	83.9	89
Y00G_100_100 _d	88.3	-11.9	95.1	95.8	97
Y25G_100_100 _d	83.3	-19.2	83.7	85.9	102
Y50G_100_100 _d	72.7	-31.3	66.0	73.1	115
Y75G_100_100 _d	60.4	-48.8	46.7	67.6	136
G00B_100_100 _d	51.9	-68.8	28.1	74.3	157
G25B_100_100 _d	54.8	-51.0	-12.3	52.5	193
G50B_100_100 _d	58.3	-29.2	-43.7	52.6	236
G75B_100_100 _d	42.7	-6.0	-45.0	45.4	262
B00R_100_100 _d	25.3	23.5	-47.3	52.8	296
B25R_100_100 _d	37.8	53.8	-26.3	59.9	333
B50R_100_100 _d	48.2	72.8	-8.5	73.3	353
B75R_100_100 _d	47.7	67.7	14.0	69.1	11

%Gamut
 $u^*_{rel} = 92$
%Regularity
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 58$



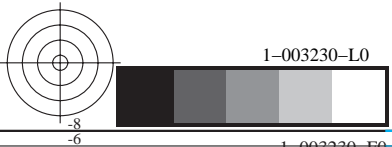
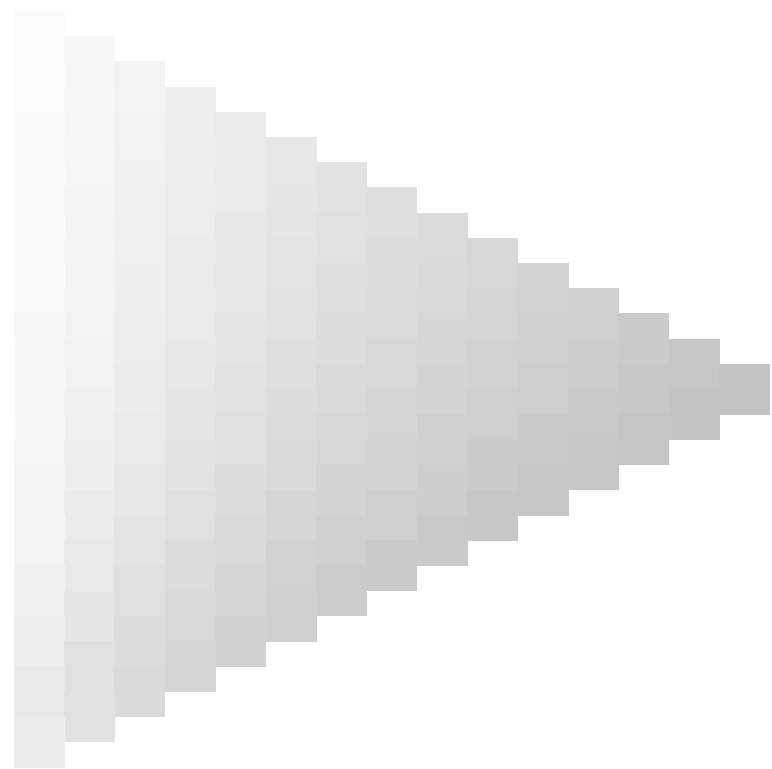
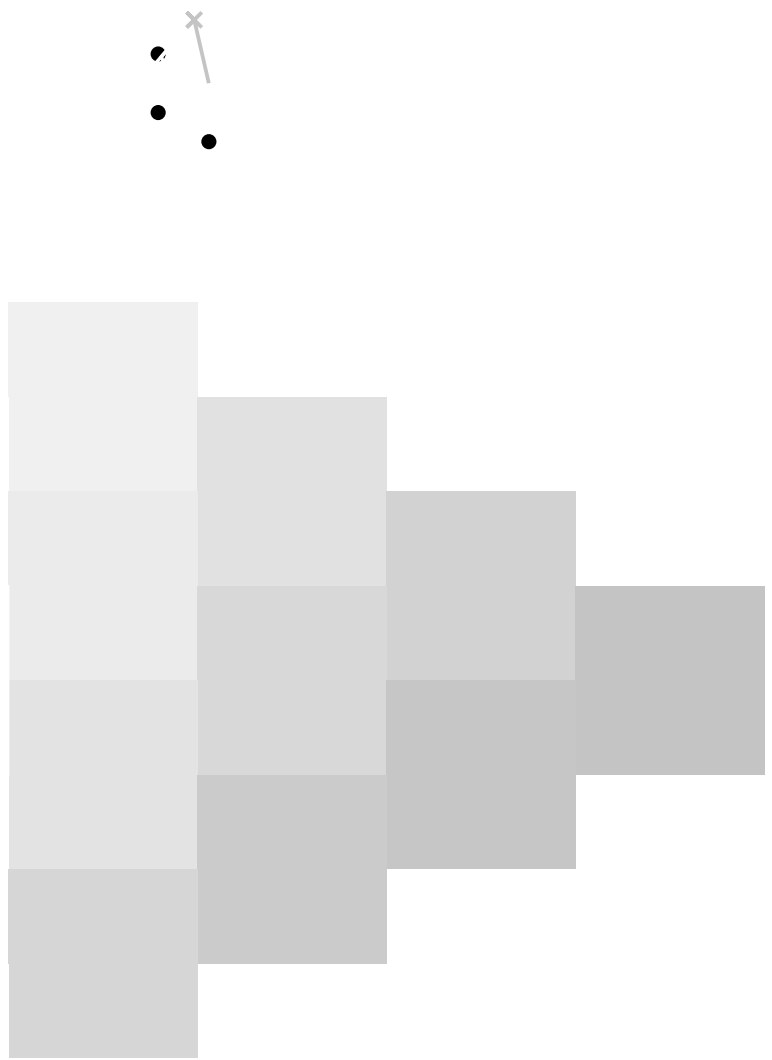
see similar files: http://130.149.60.45/~farbmetrik/QE44/QE44.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-QE44/QE44L0NP.PDF /.PS
application for measurement of offset print output, separation cmyk6 (CMYK)
TUB material: code=rh4ta



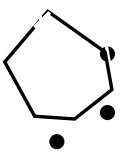


see similar files: <http://130.149.60.45/~farbmetrik/QE44/QE44.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

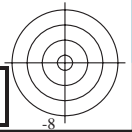




http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 4/33



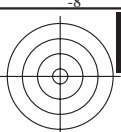
see similar files: <http://130.149.60.45/~farbmetrik/QE44/QE44.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



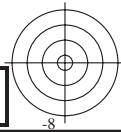
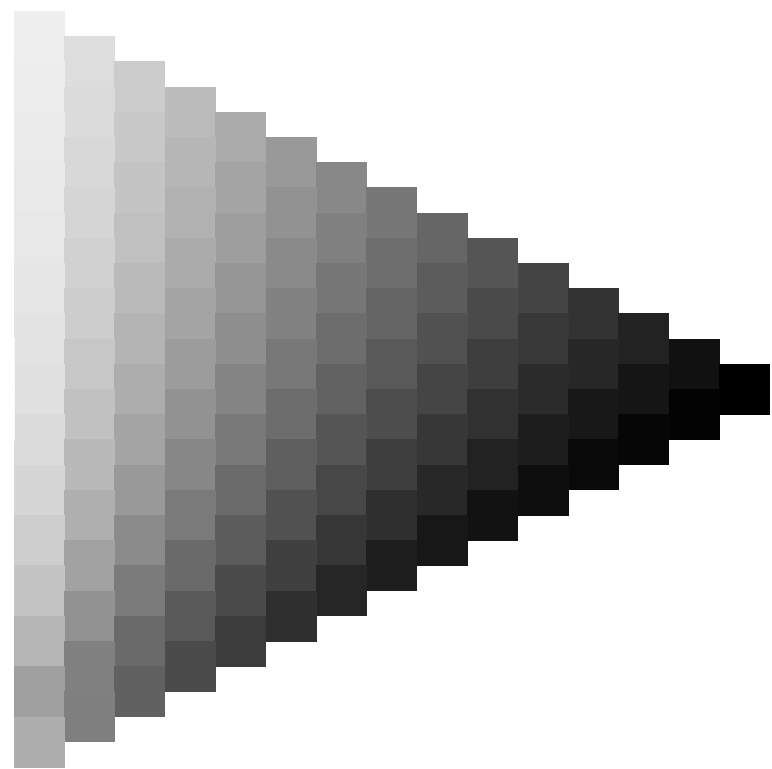
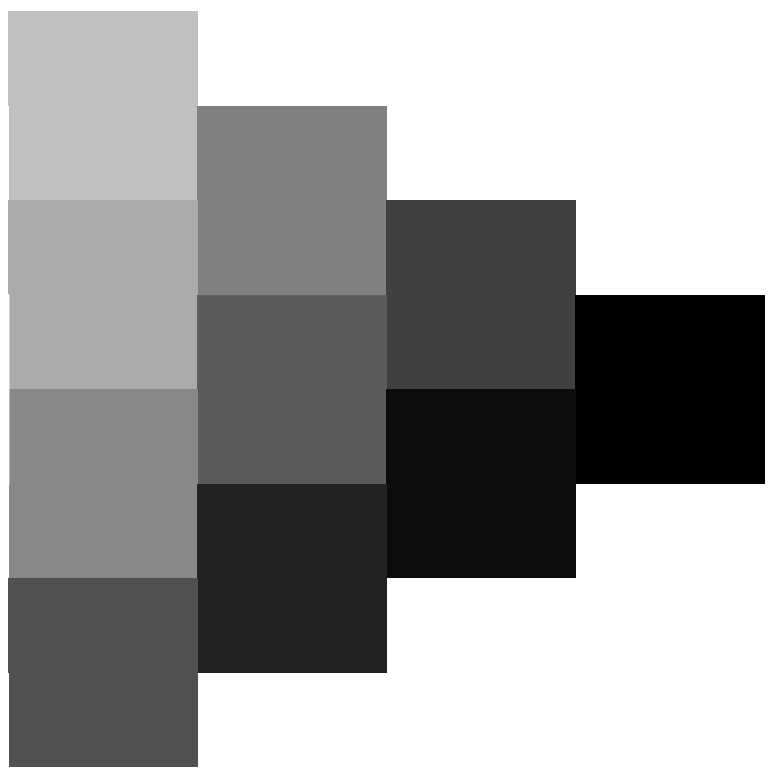
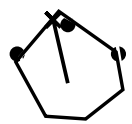
1-003330-L0 QE440-70
TUB-test chart QE44; hue code: $H^*_d=Y25G_d$
Test chart according to DIN 33872, 3D=0, de=0, cmyk

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





see similar files: <http://130.149.60.45/~farbmetrik/QE44/QE44.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

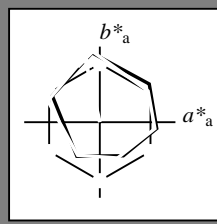


Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 102/360 = 0.28$

$H^*_d = Y25G_d$

Data for any device (d) or elementary (e) colour:

HIC^*_d
hue text for the colours of this page:
 $H^*_d = Y25G_d$
triangle lightness T^*



ORS20a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{d, Ma}	47.3	63.8	41.2	76.0	32
Y _{d, Ma}	88.3	-11.9	95.1	95.8	97
G _{d, Ma}	51.9	-68.8	28.1	74.3	157
C _{d, Ma}	58.3	-29.2	-43.7	52.6	236
B _{d, Ma}	25.3	23.5	-47.3	52.8	296
M _{d, Ma}	48.2	72.8	-8.5	73.3	353
N _{d, Ma}	17.7	0.0	0.0	0.0	0
W _{d, Ma}	95.4	0.0	0.0	0.0	0
R _{d, CIE}	39.9	58.7	27.9	65.0	25
Y _{d, CIE}	81.2	-2.8	71.5	71.6	92
G _{d, CIE}	52.2	-42.4	13.6	44.5	162
B _{d, CIE}	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{d, Ma}$: 83 -19 83 85 102

$HIC^*_{d, Ma}$: Y25G_100_100d

$rgbic^*_{d, Ma}$:

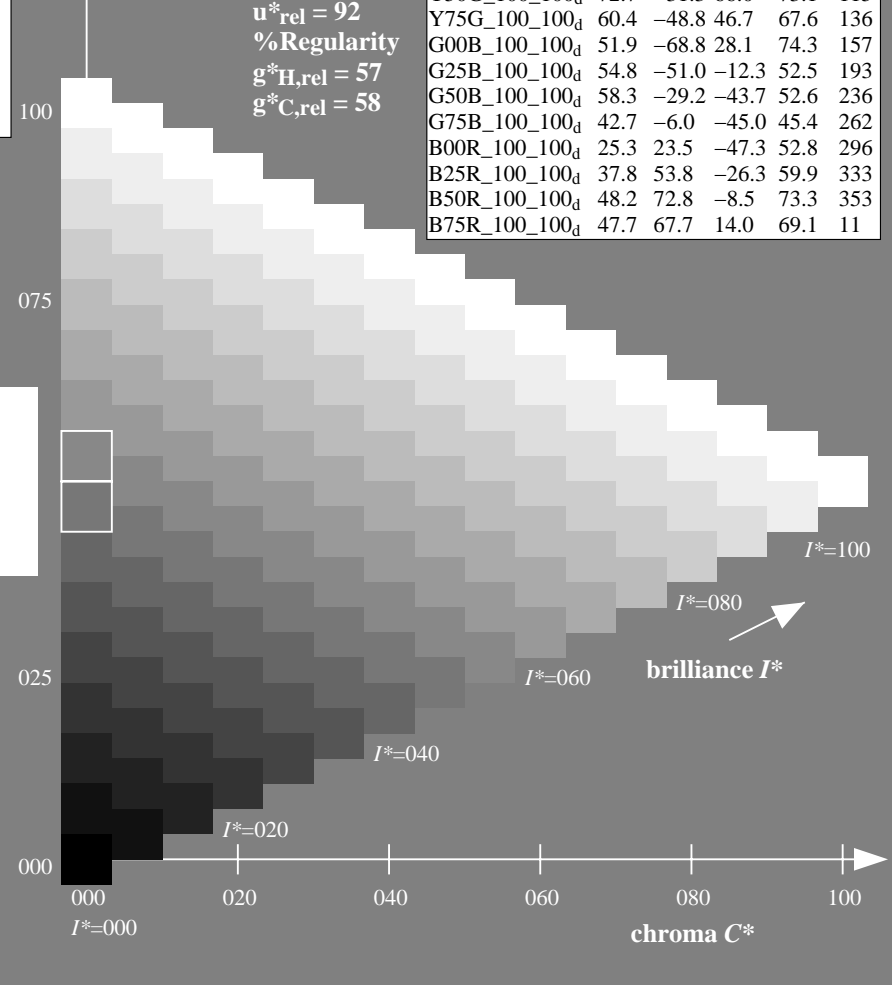
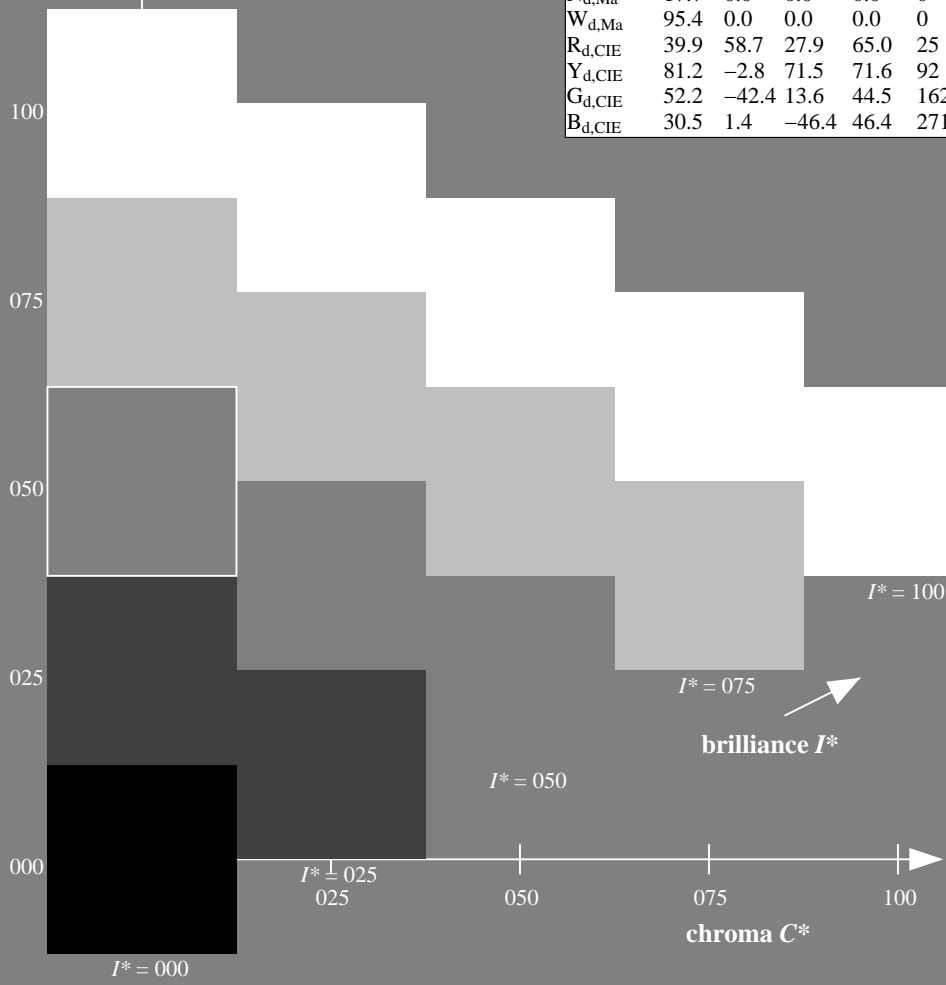
0.76 1.0 0.0 1.0 1.0

triangle lightness T^*

ORS20a; adapted (a) CIELAB data

H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 _d	47.3	63.8	41.2	76.0	32
R25Y_100_100 _d	55.3	45.8	52.2	69.5	48
R50Y_100_100 _d	67.2	22.6	67.6	71.2	71
R75Y_100_100 _d	79.9	1.0	83.9	83.9	89
Y00G_100_100 _d	88.3	-11.9	95.1	95.8	97
Y25G_100_100 _d	83.3	-19.2	83.7	85.9	102
Y50G_100_100 _d	72.7	-31.3	66.0	73.1	115
Y75G_100_100 _d	60.4	-48.8	46.7	67.6	136
G00B_100_100 _d	51.9	-68.8	28.1	74.3	157
G25B_100_100 _d	54.8	-51.0	-12.3	52.5	193
G50B_100_100 _d	58.3	-29.2	-43.7	52.6	236
G75B_100_100 _d	42.7	-6.0	-45.0	45.4	262
B00R_100_100 _d	25.3	23.5	-47.3	52.8	296
B25R_100_100 _d	37.8	53.8	-26.3	59.9	333
B50R_100_100 _d	48.2	72.8	-8.5	73.3	353
B75R_100_100 _d	47.7	67.7	14.0	69.1	11

%Gamut
 $u^*_{rel} = 92$
%Regularity
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 58$



see similar files: http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-QE44/QE44L0NP.PDF /.PS
application for measurement of offset print output, separation cmyk6 (CMYK)
TUB material: code=rh4ta

1-003530-L0 QE440-70

TUB-test chart QE44; hue code: $H^*_d=Y25G_d$
Test chart according to DIN 33872, 3D=0, de=0, cmyk

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

1-003530-F0

QE4400L

http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /PS; transfer output
 N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 7/33

TUB registration: 20130201-QE44/QE44L0NP.PDF /.PS TUB material: code=rha4ta
 application for measurement of offset print output, separation cmyk6 (CMYK)

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6* D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
 Six hue angles of the device colours RYGBM; $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

device CIELAB (a^*_d, b^*_d) chroma diagram

J=Y_d Yellow
 $LCH^*_d = 88.3 \quad 95.8 \quad 97.1$
 $LAB^*_d = 88.3 \quad -11.9 \quad 95.1$
 $rgb^*_d = 1.0 \quad 1.0 \quad 0.0$

L=G_d leaf-green
 $LCH^*_d = 51.9 \quad 74.3 \quad 157.7$
 $LAB^*_d = 51.9 \quad -68.8 \quad 28.1$
 $rgb^*_d = 0.0 \quad 1.0 \quad 0.0$

C=C_d cyan-blue
 $LCH^*_d = 58.3 \quad 52.6 \quad 236.1$
 $LAB^*_d = 58.3 \quad -29.2 \quad -43.7$
 $rgb^*_d = 0.0 \quad 1.0 \quad 1.0$

O=R_d orange-red
 $LCH^*_d = 47.3 \quad 76.0 \quad 32.8$
 $LAB^*_d = 47.3 \quad 63.8 \quad 41.2$
 $rgb^*_d = 1.0 \quad 0.0 \quad 0.0$

M=M_d magenta-red
 $LCH^*_d = 48.2 \quad 73.3 \quad 353.3$
 $LAB^*_d = 48.2 \quad 72.8 \quad -8.5$
 $rgb^*_d = 1.0 \quad 0.0 \quad 1.0$

V=B_d violet-blue
 $LCH^*_d = 25.3 \quad 52.8 \quad 296.4$
 $LAB^*_d = 25.3 \quad 23.5 \quad -47.3$
 $rgb^*_d = 0.0 \quad 0.0 \quad 1.0$

elementary CIELAB (a^*_e, b^*_e) chroma diagram

Y_e yellow
 $LCH^*_e = 82.9 \quad 87.9 \quad 92.3$
 $LAB^*_e = 82.9 \quad -3.5 \quad 87.8$
 $rgb^*_de = 1.0 \quad 0.841 \quad 0.0$

G_e green
 $LCH^*_e = 52.4 \quad 70.5 \quad 162.2$
 $LAB^*_e = 52.4 \quad -67.1 \quad 21.5$
 $rgb^*_de = 0.0 \quad 1.0 \quad 0.093$

R_e red
 $LCH^*_e = 47.6 \quad 71.9 \quad 25.4$
 $LAB^*_e = 47.6 \quad 64.9 \quad 30.9$
 $rgb^*_de = 1.0 \quad 0.0 \quad 0.209$

C_e blue-green
 $LCH^*_e = 56.6 \quad 49.8 \quad 216.9$
 $LAB^*_e = 56.6 \quad -39.7 \quad -29.9$
 $rgb^*_de = 0.0 \quad 1.0 \quad 0.735$

B_e blue
 $LCH^*_e = 37.9 \quad 45.4 \quad 271.7$
 $LAB^*_e = 37.9 \quad 1.3 \quad -45.4$
 $rgb^*_de = 0.0 \quad 0.374 \quad 1.0$

M_e blue-red
 $LCH^*_e = 34.8 \quad 57.7 \quad 328.6$
 $LAB^*_e = 34.8 \quad 49.2 \quad -30.0$
 $rgb^*_de = 0.407 \quad 0.0 \quad 1.0$

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

Y_s yellow
 $LCH^*_s = 80.6 \quad 84.9 \quad 90.0$
 $LAB^*_s = 80.6 \quad 0.0 \quad 84.9$
 $rgb^*_ds = 1.0 \quad 0.784 \quad 0.0$

G_s green
 $LCH^*_s = 55.1 \quad 70.1 \quad 150.0$
 $LAB^*_s = 55.1 \quad -60.7 \quad 35.0$
 $rgb^*_ds = 0.074 \quad 1.0 \quad 0.0$

R_s red
 $LCH^*_s = 47.4 \quad 74.2 \quad 30.0$
 $LAB^*_s = 47.4 \quad 64.3 \quad 37.1$
 $rgb^*_ds = 1.0 \quad 0.0 \quad 0.084$

C_s blue-green
 $LCH^*_s = 56.1 \quad 50.0 \quad 210.0$
 $LAB^*_s = 56.1 \quad -43.3 \quad -25.0$
 $rgb^*_ds = 0.0 \quad 1.0 \quad 0.665$

M_s blue-red
 $LCH^*_s = 35.6 \quad 58.3 \quad 330.0$
 $LAB^*_s = 35.6 \quad 50.5 \quad -29.1$
 $rgb^*_ds = 0.431 \quad 0.0 \quad 1.0$

B_s blue
 $LCH^*_s = 38.8 \quad 45.4 \quad 270.0$
 $LAB^*_s = 38.8 \quad 0.0 \quad -45.4$
 $rgb^*_ds = 0.0 \quad 0.397 \quad 1.0$

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

- For the rgb^*_d -input values the CIELAB data LCH^*_d and LAB^*_d have been calculated.
- For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_d the equation:
 $h_{ab,s} = \arctan \left[r^*_d \cos(30) + g^*_d \cos(150) \right] / \left[r^*_d \sin(30) + g^*_d \sin(150) \right] + b^*_d \sin(270)$ (1)
- For the 48 or 360 equally spaced standard hue angles $h_{ab,i}$ 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 elementary hue circle:
 $h_{48ab,ij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 8$ ($i = 0, 1, \dots, 5; j = 0, 1, \dots, 7$) (2)
 $h_{360ab,ij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60$ ($i = 0, 1, \dots, 5; j = 0, 1, \dots, 59$) (3)
- For the 48 or 360 elementary hue angles $h_{ab,i}$ 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:
 $h_{48ab,ej} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 8$ ($i = 0, 1, \dots, 5; j = 0, 1, \dots, 7$) (4)
 $h_{360ab,ej} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60$ ($i = 0, 1, \dots, 5; j = 0, 1, \dots, 59$) (5)
- For any elementary hue angle $h_{ab,i}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 4 or 1 to 4.
- The values rgb^*_d produce the output of the device-independent elementary hues

I-003630-L0 QE440-70 LAB*_{lab0}, YN=0%, XYZ_{nmw}=2.4, 2.5, 2.6, 85.1, 88.8, 104.3, LAB*_{nmw}=17.7, 0.0, 0.0, 95.5, 0.0, 0.0
 TUB-test chart QE44; hue code: H*_d=Y25Gd
 48 step hue circles; $rgb-LabCh$ *tables

Output: Offset standard print; separation cmyk6*, D65, page 7/33
 input: $rgb/cmyk \rightarrow rgb_d$
 output: transfer to $cmyk_d$

see similar files: <http://130.149.60.45/~farbmetrik/QE44/QE44.HTM>
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 8/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6* D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h_ab,ab = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with columns for colorimetric data (LAB, RGB, CMYK) and hue angles (30, 90, 150, 210, 270, 330 degrees) for various color separations.

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

TUB-test chart QE44; hue code: H*_d=Y25Gd 48 step hue circles; rgb-LabCh*tables

Output: Offset standard print; separation cmyk6* D65, page 8/33

http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 9/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6*; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h_ab,ab = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours RYGBM; h_ab,d = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBM; 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* _{dd64M}	rgb* _{ds36IM}	LAB* _{ds36IM}	rgb* _{ds36IM}	LAB* _{ds36IM}														
32.8	30.0	25.4	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	1.0	0.0	0.209	47.6	64.9	30.9	71.9	25				
40.4	37.5	33.8	1.0	0.125	0.0	51.2	54.9	46.7	72.1	40.4	32.8	1.0	0.007	0.0	47.6	63.4	41.6	75.8	33			
50.0	45.0	42.1	1.0	0.25	0.0	56.0	44.4	53.0	69.1	50.0	40.4	1.0	0.148	0.0	52.1	53.0	48.1	71.6	42			
61.1	52.5	50.5	1.0	0.375	0.0	61.4	33.2	60.3	68.8	61.1	50.0	1.0	0.25	0.0	56.0	44.5	53.0	69.2	49			
71.4	60.0	58.8	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4	61.1	1.0	0.35	0.0	60.3	35.6	59.0	69.0	58			
81.7	67.5	67.2	1.0	0.625	0.0	73.6	11.0	76.1	76.9	81.7	71.4	1.0	0.442	0.0	64.5	27.8	64.5	70.2	66			
88.5	75.0	75.6	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88.5	81.7	1.0	0.55	0.0	69.8	18.3	71.3	73.6	75			
93.6	82.5	83.9	1.0	0.875	0.0	84.2	-5.7	89.4	89.6	93.6	88.5	1.0	0.655	0.0	75.0	9.0	77.9	78.5	83			
97.1	90.0	92.3	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1	93.6	1.0	0.842	0.0	83.0	-3.4	87.8	87.9	92			
100.3	97.5	101.0	1.0	0.875	1.0	0.0	85.8	-16.2	88.6	100.3	97.1	1.0	0.871	1.0	0.0	85.8	-16.2	88.4	89.9	100		
103.3	105.0	109.7	1.0	0.0	82.9	-19.7	83.0	85.3	103.3	100.3	100.3	1.0	0.599	1.0	0.0	76.2	-26.6	74.3	78.9	109		
108.3	112.5	118.5	1.0	0.0	77.0	-25.2	76.3	80.4	108.3	103.3	103.3	1.0	0.455	1.0	0.0	71.4	-33.4	63.2	71.6	117		
115.3	120.0	127.2	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115.3	108.3	1.0	0.327	1.0	0.0	65.8	-41.3	54.4	68.4	127		
122.4	127.5	136.0	0.375	1.0	0.0	68.9	-36.9	58.1	68.8	122.4	115.3	1.0	0.244	1.0	0.0	60.7	-48.1	47.5	67.6	135		
134.9	135.0	144.7	0.25	1.0	0.0	60.8	-47.8	47.8	67.6	134.9	122.4	1.0	0.124	1.0	0.0	57.4	-54.9	38.9	67.4	144		
144.6	142.5	153.4	0.125	1.0	0.0	57.4	-54.9	38.9	67.3	144.6	134.9	1.0	0.047	1.0	0.0	54.0	-63.8	32.7	71.7	152		
157.7	150.0	162.2	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7	144.6	1.0	0.093	52.4	-67.0	21.5	70.5	162	162			
163.7	157.5	169.0	0.0	1.0	0.125	52.5	-66.4	19.3	69.1	163.7	157.7	1.0	0.209	53.1	-63.5	12.8	64.9	168	168			
170.9	165.0	175.9	0.0	1.0	0.25	53.2	-61.9	9.8	62.7	170.9	163.7	1.0	0.311	53.7	-59.7	4.3	59.9	175	175			
181.0	172.5	182.7	0.0	1.0	0.375	54.1	-56.9	-1.0	56.9	181.0	170.9	1.0	0.387	54.2	-56.4	-2.2	56.5	182	182			
193.5	180.0	189.6	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5	181.0	1.0	0.46	54.6	-53.1	-8.9	54.0	189	189			
205.9	187.5	196.4	0.0	1.0	0.625	55.8	-45.1	-21.9	50.1	205.9	193.5	1.0	0.524	55.0	-50.0	-14.3	52.1	195	195			
218.4	195.0	203.2	0.0	1.0	0.75	56.7	-38.9	-30.9	49.7	218.4	205.9	1.0	0.598	55.6	-46.5	-19.9	50.7	203	203			
227.3	202.5	210.1	0.0	1.0	0.875	57.5	-34.3	-37.2	50.6	227.3	218.4	1.0	0.662	56.1	-43.4	-24.7	50.1	209	209			
236.1	210.0	216.9	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1	227.3	1.0	0.736	56.7	-39.7	-29.9	49.8	216	216			
240.3	217.5	223.8	0.0	0.875	1.0	55.2	-25.0	-43.9	50.5	240.3	236.1	1.0	0.819	57.2	-36.4	-34.4	50.3	223	223			
245.8	225.0	230.6	0.0	0.75	1.0	51.7	-19.7	-44.1	48.3	245.8	240.3	1.0	0.922	57.9	-32.5	-39.7	51.4	230	230			
252.5	232.5	237.5	0.0	0.625	1.0	47.7	-13.9	-44.4	46.5	252.5	245.8	1.0	0.974	1.0	57.7	-28.3	-43.7	52.2	237	237		
262.3	240.0	244.3	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3	252.5	1.0	0.785	1.0	52.7	-21.1	-44.1	49.0	244	244		
271.7	247.5	251.2	0.0	0.375	1.0	37.9	1.3	-45.4	45.4	271.7	262.3	1.0	0.659	1.0	48.9	-15.4	-44.3	47.1	250	250		
281.6	255.0	258.0	0.0	0.25	1.0	33.3	9.4	-46.0	47.0	281.6	271.7	1.0	0.555	1.0	45.0	-9.4	-44.8	45.9	258	258		
290.3	262.5	264.8	0.0	0.125	1.0	28.6	17.4	-46.9	50.1	290.3	281.6	1.0	0.472	1.0	41.7	-4.3	-45.1	45.4	264	264		
296.4	270.0	271.7	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4	290.3	1.0	0.291	1.0	34.9	6.8	-45.9	46.5	278	278		
306.7	277.5	278.8	0.125	0.0	1.0	29.3	31.8	-42.6	53.1	306.7	296.4	1.0	0.291	1.0	34.9	6.8	-45.9	46.5	278	278		
312.7	285.0	285.9	0.25	0.0	1.0	31.5	36.2	-39.2	53.4	312.7	306.7	1.0	0.188	1.0	31.0	13.3	-46.6	48.5	285	285		
326.7	292.5	293.0	0.375	0.0	1.0	33.8	47.6	-31.2	56.9	326.7	312.7	1.0	0.079	1.0	27.4	19.6	-47.1	51.1	292	292		
333.9	300.0	300.1	0.5	0.0	1.0	37.8	53.8	-26.3	59.9	333.9	326.7	1.0	0.046	0.0	1.0	26.8	26.6	-45.7	53.0	300	300	
339.6	307.5	307.2	0.625	0.0	1.0	40.9	58.8	-21.8	62.7	339.6	333.9	1.0	0.126	0.0	1.0	29.4	31.9	-42.5	53.2	306	306	
347.2	315.0	314.3	0.75	0.0	1.0	43.1	65.9	-14.9	67.6	347.2	339.6	1.0	0.265	0.0	1.0	31.8	37.7	-38.4	53.8	314	314	
350.2	322.5	321.4	0.875	0.0	1.0	45.9	69.4	-11.9	70.5	350.2	347.2	1.0	0.324	0.0	1.0	32.9	43.2	-34.8	55.5	321	321	
353.3	330.0	328.6	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3	350.2	1.0	0.407	0.0	1.0	34.9	49.3	-30.0	57.7	328	328	
356.5	337.5	335.7	1.0	0.0	1.0	0.875	48.2	71.6	-4.3	71.7	353.3	353.3	1.0	0.529	0.0	1.0	38.6	55.0	-25.3	60.6	335	335
360.3	345.0	342.8	1.0	0.0	0.75	48.1	70.4	0.3	70.4	360.3	356.5	1.0	0.678	0.0	1.0	41.9	61.9	-19.0	64.8	342	342	
365.8	352.5	349.9	1.0	0.0	0.625	48.0	68.9	7.1	69.3	365.8	360.3	1.0	0.842	0.0	1.0	45.2	68.6	-12.7	69.8	349	349	
371.6	360.0	357.0	1.0	0.0	0.5	47.7	67.7	14.0	69.1	371.6	365.8	1.0	0.949	0.0	1.0	47.3	71.5	-9.9	72.2	352	352	
378.2	367.5	364.1	1.0	0.0	0.375	47.7	66.1	21.8	69.6	378.2	371.6	1.0	0.765	48.2	70.6	-0.1	70.6	359	359	359		
383.9	375.0	371.2	1.0	0.0	0.25	47.7	65.0	28.9	71.2	383.9	378.2	1.0	0.563	47.9	68.4	10.6	69.2	368	368	368		
388.6	382.5	378.3	1.0	0.0	0.125	47.4	64.4	35.1	73.4	388.6	383.9	1.0	0.408	47.8	66.7	19.8	69.6	376	376	376		
392.8	390.0	385.4	1.0	0.0	0.0	47.3	63.8	41.2	76.0	392.8	388.6	1.0	0.209	47.6	64.9	30.9	71.9	385	385	385		

http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 10/33

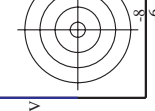
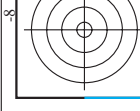
Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6* D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h_ab,ds = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Six hue angles of the device colours RYGBM; h_ab,d = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBM; h_ab,e = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

Table with 10 columns: h_ab,d, h_ab,s, h_ab,e, rgb*_ds361M, LAB*_dss361MI, LAB*_dss361MI (x=LabCh), rgb*_ds361MI, LAB*_dss361MI (x=LabCh), rgb*_dd361MI, LAB*_dss361MI (x=LabCh), rgb*_dd361MI, LAB*_dss361MI (x=LabCh), rgb*_ds361MI, LAB*_dss361MI (x=LabCh), rgb*_dd361MI, LAB*_dss361MI (x=LabCh), rgb*_ds361MI, LAB*_dss361MI (x=LabCh), rgb*_dd361MI, LAB*_dss361MI (x=LabCh)

LAB*lab0, YN=0%, XYZnw=2,4,2,5,2,6,85,1,88,8,104,3, LAB*rw=17,7,0,0,0,95,5,0,0,0,0

TUB-test chart QE44; hue code: H*_d=Y25Gd 48 step hue circles; rgb-LabCh*tables input: rgb/cmyk -> rgbd output: transfer to cmykd



Output: Offset standard print; separation cmyk6* D65, page 10/33

http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 13/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6*: D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h_ab,ds = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

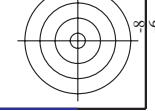
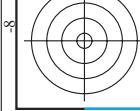
Table with columns for hue angles (h_ab,d, h_ab,s, h_ab,e), device colours (RYGBM), and separation colours (RYGBM, cmyk6). Rows 170-236.

Six hue angles of the device colours RYGBM; h_ab,d = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBM; h_ab,e = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

TUB-test chart QE44; hue code: H*_d=Y25Gd 48 step hue circles; rgb-LabCh*tables input: rgb/cmyk -> rgbd output: transfer to cmykd

LAB*lab, YN=0%, XY Znw=2.4, 2.5, 2.6, 85.1, 88.8, 104.3, LAB*rw=17.7, 0.0, 0.0, 95.5, 0.0, 0.0

Output: Offset standard print; separation cmyk6*: D65, page 13/36



http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 17/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6*: D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h_ab,ds = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with columns: h_ab,d, h_ab,s, h_ab,e, rgb*_dd361M, LAB*_dcs361MI, LAB*_dss361MI, LAB*_ds361MI, LAB*_dex361MI, LAB*_de361MI, LAB*_dex361MI, LAB*_de361MI, rgb*_dd361MI, rgb*_ds361MI, rgb*_dss361MI, rgb*_dex361MI, rgb*_de361MI, rgb*_dex361MI, rgb*_de361MI. Rows 360-392.

Input: rgb/cmyk -> rgbd output: transfer to cmykd

Output: Offset standard print; separation cmyk6*: D65, page 17/33

http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 18/33

Table with columns: nif, HHC*Fd, rpb*Fd, icr*Fd, hsa*Fd, rpb*Fd, LabCH*Fd, LabCH*Fd, DFE*Fd, hsa*Fd, rpb*Fd, LabCH*Fd. Rows include color patches like 0/648 R00Y_100_100a, 1/657 R13Y_100_100a, etc., and numerical data for each.

Mean color difference of this page: delta E*ab = 2.6

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

nif	HC*Fd	rgb_Fd	icr_Fd	hsa_Fd	rgb*Fd	LabCH*Fd	LabCH**Fd	DF*Fd	hsa_Md	rgb**Md	LabCH**Md	DF**Md	hsa_Md	rgb**Md	LabCH**Md	DF**Md
0/648	R00Y_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	390	1.0	0.0	0.0	389	1.0	0.0	0.0
1/668	R25Y_100_100a	0.0	0.5	0.5	0.0	0.0	0.0	0.0	44	1.0	0.233	1.7	42	1.0	0.233	1.7
2/684	R50Y_100_100a	0.0	1.0	1.0	0.0	0.0	0.0	0.0	44	1.0	0.766	5.0	59	1.0	0.766	5.0
3/702	R75Y_100_100a	0.0	1.0	0.5	0.0	0.0	0.0	0.0	76	1.0	1.0	8.5	79	1.0	1.0	8.5
4/720	Y00C_100_100a	0.0	1.0	0.0	0.0	0.0	0.0	0.0	104	1.0	0.0	0.0	102	1.0	0.0	0.0
5/558	Y25C_100_100a	0.75	1.0	0.0	0.0	0.0	0.0	0.0	104	0.766	0.0	0.0	102	0.766	0.0	0.0
6/396	Y50C_100_100a	0.25	1.0	0.0	0.0	0.0	0.0	0.0	136	0.233	0.0	0.0	137	0.233	0.0	0.0
8/72	G00B_100_100a	0.0	1.0	0.0	0.0	0.0	0.0	0.0	150	0.0	0.0	0.0	149	0.0	0.0	0.0
9/72	G00B_100_100a	0.0	1.0	0.0	0.0	0.0	0.0	0.0	150	0.0	0.0	0.0	149	0.0	0.0	0.0
10/76	G25B_100_100a	0.0	1.0	0.5	0.0	0.0	0.0	0.0	180	0.0	0.5	0.0	180	0.0	0.5	0.0
11/80	G50B_100_100a	0.0	1.0	1.0	0.0	0.0	0.0	0.0	210	0.0	1.0	0.0	210	0.0	1.0	0.0
12/44	G75B_100_100a	0.0	1.0	1.0	0.5	0.0	0.0	0.0	240	0.0	0.5	0.0	240	0.0	0.5	0.0
13/8	B00M_100_100a	0.0	1.0	1.0	0.0	0.0	0.0	0.0	270	0.0	0.0	0.0	270	0.0	0.0	0.0
14/332	B25R_100_100a	0.5	0.0	1.0	0.0	0.0	0.0	0.0	300	0.5	0.0	0.0	300	0.5	0.0	0.0
15/656	B50R_100_100a	0.0	0.0	1.0	0.0	0.0	0.0	0.0	330	0.0	0.0	0.0	330	0.0	0.0	0.0
16/652	B75R_100_100a	1.0	0.0	1.0	0.0	0.0	0.0	0.0	360	1.0	0.0	0.0	360	1.0	0.0	0.0
17/648	R00Y_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	390	1.0	0.0	0.0	389	1.0	0.0	0.0
18/668	R00Y_100_050a	1.0	0.5	0.5	0.0	0.0	0.0	0.0	390	1.0	0.5	0.0	389	1.0	0.5	0.0
19/678	R50Y_075_050a	1.0	0.75	0.5	0.0	0.0	0.0	0.0	390	1.0	0.75	0.5	389	1.0	0.75	0.5
20/724	Y00C_100_050a	0.75	1.0	0.5	0.0	0.0	0.0	0.0	420	0.75	0.5	0.0	419	0.75	0.5	0.0
21/400	G00B_100_050a	0.5	1.0	0.0	0.0	0.0	0.0	0.0	450	0.5	0.0	0.0	449	0.5	0.0	0.0
22/548	B00R_100_050a	0.5	1.0	0.0	0.0	0.0	0.0	0.0	480	0.5	0.0	0.0	479	0.5	0.0	0.0
25/692	B50R_100_050a	1.0	0.5	1.0	0.0	0.0	0.0	0.0	510	1.0	0.5	1.0	509	1.0	0.5	1.0
26/688	R00Y_100_050a	1.0	0.5	0.5	0.0	0.0	0.0	0.0	540	1.0	0.5	0.5	539	1.0	0.5	0.5
27/506	R00Y_075_050a	0.75	0.25	0.25	0.5	0.5	0.5	0.5	570	0.75	0.25	0.25	569	0.75	0.25	0.25
28/524	R50Y_075_050a	0.75	0.75	0.25	0.5	0.5	0.5	0.5	600	0.75	0.75	0.25	599	0.75	0.75	0.25
29/542	Y00C_075_050a	0.75	0.75	0.25	0.5	0.5	0.5	0.5	630	0.75	0.75	0.25	629	0.75	0.75	0.25
30/380	Y50C_075_050a	0.25	0.75	0.25	0.5	0.5	0.5	0.5	660	0.25	0.75	0.25	659	0.25	0.75	0.25
32/222	G50B_075_050a	0.25	0.75	0.25	0.5	0.5	0.5	0.5	690	0.25	0.75	0.25	689	0.25	0.75	0.25
33/186	B00R_075_050a	0.25	0.75	0.25	0.5	0.5	0.5	0.5	720	0.25	0.75	0.25	719	0.25	0.75	0.25
34/510	B50R_075_050a	0.75	0.25	0.25	0.5	0.5	0.5	0.5	750	0.75	0.25	0.25	749	0.75	0.25	0.25
35/506	R00Y_075_050a	0.75	0.25	0.25	0.5	0.5	0.5	0.5	780	0.75	0.25	0.25	779	0.75	0.25	0.25
36/324	R00Y_050_050a	0.5	0.0	0.0	0.5	0.5	0.5	0.5	810	0.5	0.0	0.0	809	0.5	0.0	0.0
37/342	R50Y_050_050a	0.5	0.25	0.0	0.5	0.5	0.5	0.5	840	0.5	0.25	0.0	839	0.5	0.25	0.0
38/360	Y00C_050_050a	0.5	0.5	0.0	0.5	0.5	0.5	0.5	870	0.5	0.5	0.0	869	0.5	0.5	0.0
39/198	Y50C_050_050a	0.25	0.5	0.0	0.5	0.5	0.5	0.5	900	0.25	0.5	0.0	899	0.25	0.5	0.0
40/36	G00B_050_050a	0.0	0.5	0.0	0.5	0.5	0.5	0.5	930	0.0	0.5	0.0	929	0.0	0.5	0.0
41/40	G50B_050_050a	0.0	0.5	0.5	0.5	0.5	0.5	0.5	960	0.0	0.5	0.5	959	0.0	0.5	0.5
42/4	B00R_050_050a	0.0	0.5	0.5	0.5	0.5	0.5	0.5	990	0.0	0.5	0.5	989	0.0	0.5	0.5
43/328	B50R_050_050a	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1020	0.5	0.0	0.5	1019	0.5	0.0	0.5
44/324	R00Y_050_050a	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1050	0.5	0.0	0.5	1049	0.5	0.0	0.5
45/0	NW_000a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	360	0.0	0.0	0.0
46/91	NW_013a	0.125	0.125	0.125	0.125	0.125	0.125	0.125	360	0.125	0.125	0.125	360	0.125	0.125	0.125
47/182	NW_025a	0.25	0.25	0.25	0.25	0.25	0.25	0.25	360	0.25	0.25	0.25	360	0.25	0.25	0.25
48/273	NW_038a	0.375	0.375	0.375	0.375	0.375	0.375	0.375	360	0.375	0.375	0.375	360	0.375	0.375	0.375
49/364	NW_050a	0.5	0.5	0.5	0.5	0.5	0.5	0.5	360	0.5	0.5	0.5	360	0.5	0.5	0.5
50/455	NW_063a	0.625	0.625	0.625	0.625	0.625	0.625	0.625	360	0.625	0.625	0.625	360	0.625	0.625	0.625
51/546	NW_075a	0.75	0.75	0.75	0.75	0.75	0.75	0.75	360	0.75	0.75	0.75	360	0.75	0.75	0.75
52/637	NW_088a	0.875	0.875	0.875	0.875	0.875	0.875	0.875	360	0.875	0.875	0.875	360	0.875	0.875	0.875
53/728	NW_100a	1.0	1.0	1.0	1.0	1.0	1.0	1.0	360	1.0	1.0	1.0	360	1.0	1.0	1.0

Mean color difference of this page: delta E* = 3.8

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

TUB-test chart QE44; hue code: H*_d=Y25G_d
colors and differences, ΔE*'



http://130.149.60.45/~farbmatrik/QE44/QE44LONP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 21/33

Table with 16 columns: n, HHC*Fd, rgb*Fd, icr*Fd, hsa*Fd, LabCH*Fd, LabCH*Fd, LabCH*Fd, LabCH*Fd, LabCH*Fd, LabCH*Fd, LabCH*Fd, LabCH*Fd, LabCH*Fd, LabCH*Fd, LabCH*Fd. Rows 81-161.

Mean color difference of this page: delta E* = 4.9 input: rgb/cmyk -> rgbd output: transfer to cmykd

http://130.149.60.45/~farbmetrik/QE44/QE44LONP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 24/33

Table with 14 columns: n, HHC*Fd, rpb*Fd, icr*Fd, hsa*Fd, rpb*Fd, LabCH*Fd, LabCH*Fd, rpb*Fd, LabCH*Fd, DF*Fd, hsa*Fd, rpb*Fd, LabCH*Fd. It contains color calibration data for various color patches.

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

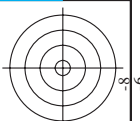
TUB-test chart QE44; hue code: H*d=Y25Gd colors and differences, AE*'

I=0032330-F0

QE440-TN; Page 24/33-F

Mean color difference of this page:

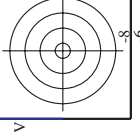
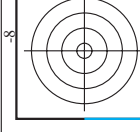
delta E* = 5.3



http://130.149.60.45/~farbmetrik/QE44/QE44LONP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 26/33

Table with 15 columns: n, HHC*Fd, Rgb*Fd, iet*Fd, Hsa*Fd, Rgb*Fd, LabCH*Fd, LabCH*Fd, Rgb*Fd, DF*Fd, Hsa*Fd, LabCH*Fd, LabCH*Fd, Rgb*Fd, and delta E* = 4.6. Rows list various color patches and their corresponding colorimetric values.

Mean color difference of this page: delta E* = 4.6. Input: rgb/cmyk -> rgbd. Output: transfer to cmykd.



http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 27/33

Table with 17 columns: n, HHC*Fd, rpb*Fd, icr*Fd, hsa*Fd, rpb*Fd, LabCh*Fd, LabCh*Fd, rpb*Fd, rpb*Fd, LabCh*Fd, DF*Fd, Hsa*Fd, rpb*Fd, LabCh*Fd, LabCh*Fd, rpb*Fd, LabCh*Fd. Rows include color names like R00Y, R00M, R00C, etc.

QE440-TN; Page 27/33-F

TUB-test chart QE44; hue code: H*d=Y25Gd colors and differences, ΔE*

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

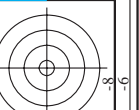
Mean color difference of this page:

delta E* = 4.8

QE4400L

TUB registration: 20130201-QE44/QE44LONP.PDF /.PS application for measurement of offset print output, separation cmyk6 (CMYK)

TUB material: code=rha4ta



http://130.149.60.45/~farbmetrik/QE44/QE44LONP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 28/33

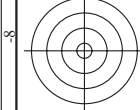
Table with 18 columns: n, HHC*Fd, rpb*Fd, icr*Fd, ihs*Fd, LabCh*Fd, rpb*Fd, LabCh*Fd, LabCh*Fd, rpb*Fd, LabCh*Fd, rpb*Fd, LabCh*Fd, LabCh*Fd, rpb*Fd, LabCh*Fd, rpb*Fd, LabCh*Fd. Contains color calibration data for various ink colors.

Mean color difference of this page:

delta E* = 3.9

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

see similar files: http://130.149.60.45/~farbmetrik/QE44/QE44.HTM technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik



n	HC*Fd	rgb*Fd	iet*Fd	hsa*Fd	rgb*Fd	LabCH*Fd	LabCH*Fd	rgb*Fd	DF*Fd	hsa*Fd	rgb*Fd	LabCH*Fd	LabCH*Fd
729	NV_100a	0.875	1.0	1.0	0.875	1.0	1.0	1.0	110.4	360	1.0	95.4	0.0
730	GS0B_100.0124	0.75	1.0	1.0	0.875	1.0	1.0	1.0	1.0	360	1.0	95.4	0.0
731	GS0B_100.0254	0.625	1.0	1.0	0.875	1.0	1.0	1.0	1.0	360	1.0	95.4	0.0
732	GS0B_100.0375	0.5	1.0	1.0	0.875	1.0	1.0	1.0	1.0	360	1.0	95.4	0.0
733	GS0B_100.0506	0.375	1.0	1.0	0.875	1.0	1.0	1.0	1.0	360	1.0	95.4	0.0
734	GS0B_100.0624	0.25	1.0	1.0	0.875	1.0	1.0	1.0	1.0	360	1.0	95.4	0.0
735	GS0B_100.0754	0.125	1.0	1.0	0.875	1.0	1.0	1.0	1.0	360	1.0	95.4	0.0
736	GS0B_100.0874	0.0	1.0	1.0	0.875	1.0	1.0	1.0	1.0	360	1.0	95.4	0.0
737	GS0B_100.1004	0.0	1.0	1.0	0.875	1.0	1.0	1.0	1.0	360	1.0	95.4	0.0
738	ROY_100.0124	0.875	0.875	1.0	0.875	0.875	1.0	0.875	3.7	8.3	0.0	47.3	63.8
739	NV_087a	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.1	0.1	0.0	0.0	0.0
740	GS0B_087.0124	0.75	0.875	0.875	0.875	0.875	0.875	0.875	0.0	0.0	0.0	0.0	0.0
741	GS0B_087.0254	0.625	0.875	0.875	0.875	0.875	0.875	0.875	0.0	0.0	0.0	0.0	0.0
742	GS0B_087.0375	0.5	0.875	0.875	0.875	0.875	0.875	0.875	0.0	0.0	0.0	0.0	0.0
743	GS0B_087.0506	0.375	0.875	0.875	0.875	0.875	0.875	0.875	0.0	0.0	0.0	0.0	0.0
744	GS0B_087.0624	0.25	0.875	0.875	0.875	0.875	0.875	0.875	0.0	0.0	0.0	0.0	0.0
745	GS0B_087.0754	0.125	0.875	0.875	0.875	0.875	0.875	0.875	0.0	0.0	0.0	0.0	0.0
746	GS0B_087.0874	0.0	0.875	0.875	0.875	0.875	0.875	0.875	0.0	0.0	0.0	0.0	0.0
747	ROY_100.0254	0.875	0.75	0.75	0.875	0.75	0.75	0.875	10.4	17.4	1.0	56.8	75.6
748	ROY_100.0375	0.75	0.75	0.75	0.875	0.75	0.75	0.875	7.5	8.4	1.0	47.3	63.8
749	GS0B_075.0124	0.625	0.75	0.75	0.75	0.75	0.75	0.75	0.0	0.0	1.0	95.4	0.0
750	GS0B_075.0254	0.5	0.75	0.75	0.75	0.75	0.75	0.75	0.0	0.0	1.0	95.4	0.0
751	GS0B_075.0375	0.375	0.75	0.75	0.75	0.75	0.75	0.75	0.0	0.0	1.0	95.4	0.0
752	GS0B_075.0506	0.25	0.75	0.75	0.75	0.75	0.75	0.75	0.0	0.0	1.0	95.4	0.0
753	GS0B_075.0624	0.125	0.75	0.75	0.75	0.75	0.75	0.75	0.0	0.0	1.0	95.4	0.0
754	GS0B_075.0754	0.0	0.75	0.75	0.75	0.75	0.75	0.75	0.0	0.0	1.0	95.4	0.0
755	ROY_100.0375	0.875	0.625	1.0	0.875	0.625	1.0	0.625	21.1	26.6	1.0	47.3	63.8
756	ROY_087.0124	0.875	0.625	0.875	0.625	0.625	0.875	0.625	0.8	10.8	1.0	47.3	63.8
757	ROY_087.0254	0.75	0.625	0.875	0.625	0.625	0.875	0.625	0.8	10.8	1.0	47.3	63.8
758	ROY_087.0375	0.625	0.625	0.875	0.625	0.625	0.875	0.625	0.8	10.8	1.0	47.3	63.8
759	ROY_087.0506	0.5	0.625	0.875	0.625	0.625	0.875	0.625	0.8	10.8	1.0	47.3	63.8
760	GS0B_062.0124	0.375	0.625	0.625	0.625	0.625	0.625	0.625	6.8	21.0	1.0	95.4	0.0
761	GS0B_062.0254	0.25	0.625	0.625	0.625	0.625	0.625	0.625	6.8	21.0	1.0	95.4	0.0
762	GS0B_062.0375	0.125	0.625	0.625	0.625	0.625	0.625	0.625	6.8	21.0	1.0	95.4	0.0
763	GS0B_062.0506	0.0	0.625	0.625	0.625	0.625	0.625	0.625	6.8	21.0	1.0	95.4	0.0
764	GS0B_062.0624	0.0	0.625	0.625	0.625	0.625	0.625	0.625	6.8	21.0	1.0	95.4	0.0
765	ROY_100.0506	0.875	0.5	1.0	0.875	0.5	1.0	0.5	6.8	21.0	1.0	95.4	0.0
766	ROY_087.0375	0.875	0.5	0.875	0.5	0.875	0.5	0.5	6.8	21.0	1.0	95.4	0.0
767	ROY_087.0506	0.75	0.5	0.875	0.5	0.875	0.5	0.5	6.8	21.0	1.0	95.4	0.0
768	GS0B_050.0124	0.625	0.5	0.875	0.5	0.875	0.5	0.5	6.8	21.0	1.0	95.4	0.0
769	ROY_050a	0.5	0.5	0.875	0.5	0.875	0.5	0.5	6.8	21.0	1.0	95.4	0.0
770	GS0B_050.0254	0.375	0.5	0.875	0.5	0.875	0.5	0.5	6.8	21.0	1.0	95.4	0.0
771	GS0B_050.0375	0.25	0.5	0.875	0.5	0.875	0.5	0.5	6.8	21.0	1.0	95.4	0.0
772	GS0B_050.0506	0.125	0.5	0.875	0.5	0.875	0.5	0.5	6.8	21.0	1.0	95.4	0.0
773	GS0B_050.0624	0.0	0.5	0.875	0.5	0.875	0.5	0.5	6.8	21.0	1.0	95.4	0.0
774	ROY_100.0624	0.875	0.375	1.0	0.875	0.375	1.0	0.375	6.8	21.0	1.0	95.4	0.0
775	ROY_087.0506	0.875	0.375	0.875	0.375	0.375	0.875	0.375	6.8	21.0	1.0	95.4	0.0
776	ROY_087.0624	0.75	0.375	0.875	0.375	0.375	0.875	0.375	6.8	21.0	1.0	95.4	0.0
777	ROY_087.0754	0.625	0.375	0.875	0.375	0.375	0.875	0.375	6.8	21.0	1.0	95.4	0.0
778	ROY_087.0874	0.5	0.375	0.875	0.375	0.375	0.875	0.375	6.8	21.0	1.0	95.4	0.0
779	NV_037a	0.375	0.375	0.875	0.375	0.375	0.875	0.375	6.8	21.0	1.0	95.4	0.0
780	GS0B_037.0124	0.25	0.375	0.875	0.375	0.375	0.875	0.375	6.8	21.0	1.0	95.4	0.0
781	GS0B_037.0254	0.125	0.375	0.875	0.375	0.375	0.875	0.375	6.8	21.0	1.0	95.4	0.0
782	ROY_100.0375	0.875	0.25	1.0	0.875	0.25	1.0	0.25	6.8	21.0	1.0	95.4	0.0
783	ROY_100.0506	0.75	0.25	1.0	0.875	0.25	1.0	0.25	6.8	21.0	1.0	95.4	0.0
784	ROY_100.0624	0.625	0.25	1.0	0.875	0.25	1.0	0.25	6.8	21.0	1.0	95.4	0.0
785	ROY_087.0506	0.875	0.25	0.875	0.25	0.25	0.875	0.25	6.8	21.0	1.0	95.4	0.0
786	ROY_087.0624	0.75	0.25	0.875	0.25	0.25	0.875	0.25	6.8	21.0	1.0	95.4	0.0
787	ROY_087.0754	0.625	0.25	0.875	0.25	0.25	0.875	0.25	6.8	21.0	1.0	95.4	0.0
788	ROY_087.0874	0.5	0.25	0.875	0.25	0.25	0.875	0.25	6.8	21.0	1.0	95.4	0.0
789	NV_025a	0.375	0.25	0.875	0.25	0.25	0.875	0.25	6.8	21.0	1.0	95.4	0.0
790	GS0B_025.0124	0.25	0.25	0.875	0.25	0.25	0.875	0.25	6.8	21.0	1.0	95.4	0.0
791	GS0B_025.0254	0.125	0.25	0.875	0.25	0.25	0.875	0.25	6.8	21.0	1.0	95.4	0.0
792	ROY_100.0874	0.875	0.125	1.0	0.875	0.125	1.0	0.125	6.8	21.0	1.0	95.4	0.0
793	ROY_087.0506	0.875	0.125	0.875	0.125	0.125	0.875	0.125	6.8	21.0	1.0	95.4	0.0
794	ROY_087.0624	0.75	0.125	0.875	0.125	0.125	0.875	0.125	6.8	21.0	1.0	95.4	0.0
795	ROY_087.0754	0.625	0.125	0.875	0.125	0.125	0.875	0.125	6.8	21.0	1.0	95.4	0.0
796	ROY_087.0874	0.5	0.125	0.875	0.125	0.125	0.875	0.125	6.8	21.0	1.0	95.4	0.0
797	ROY_037.0254	0.875	0.125	0.875	0.125	0.125	0.875	0.125	6.8	21.0	1.0	95.4	0.0
798	ROY_037.0506	0.75	0.125	0.875	0.125	0.125	0.875	0.125	6.8	21.0	1.0	95.4	0.0
799	NV_012a	0.25	0.125	0.875	0.125	0.125	0.875	0.125	6.8	21.0	1.0	95.4	0.0
800	GS0B_012.0124	0.125	0.125	0.875	0.125	0.125	0.875	0.125	6.8	21.0	1.0	95.4	0.0
801	ROY_100.1004	0.875	0.0	1.0	0.875	0.0	1.0	0.0	6.8	21.0	1.0	95.4	0.0
802	ROY_087.0874	0.875	0.0	0.875	0.0	0.0	0.875	0.0	6.8	21.0	1.0	95.4	0.0
803	ROY_075.0754	0.75	0.0	0.75	0.0	0.0	0.75	0.0	6.8	21.0	1.0	95.4	0.0
804	ROY_062.0624	0.625	0.0	0.625	0.0	0.0	0.625	0.0	6.8	21.0	1.0	95.4	0.0
805	ROY_050.0506	0.5	0.0	0.5	0.0	0.0	0.5	0.0	6.8	21.0	1.0	95.4	0.0
806	ROY_037.0374	0.375	0.0	0.375	0.0	0.0	0.375	0.0	6.8	21.0	1.0	95.4	0.0
807	ROY_025.0254	0.25	0.0	0.25	0.0	0.0	0.25	0.0	6.8	21.0	1.0	95.4	0.0
808	ROY_012.0124	0.125	0.0										

http://130.149.60.45/~farbmetrik/QE44/QE44LONP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 30/33

Table with 10 columns: n, HHC*Fd, rpb*Fd, icr*Fd, hsa*Fd, rpb*Fd, LabC*Fd, LabCH*Fd, DF*Fd, hsa*Fd, rpb*Fd, LabCH*Fd, LabCH*Yad, rpb*Yad, DF*Yad, hsa*Yad. Rows include color patches like NV, BOOR, YOCG, etc.

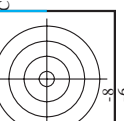
Mean color difference of this page:

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

TUB-test chart QE44; hue code: H*d=Y25Gd colors and differences, AE*'

QE440-7N; Page 30/33-F

I-0032930-F0



http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 32/33

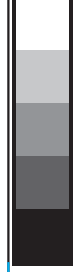
Table with 12 columns: n, H#C*Fd, r*gb*Fd, i*ct*Fd, i*ns*Fd, r*gb*Fd, LabC*H*Fd, LabC*H*Fd, LabC*H*Fd, DPF*Fd, H*an*Fd, r*gb*Fd, LabC*H*Fd. Rows include color patches like 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052.

Mean color difference of this page: delta E*90 = 5.5

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

QE440-TN; Page 32/33-F

TUB-test chart QE44; hue code: H*d=Y25Gd colors and differences, AE*'



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see similar files: http://130.149.60.45/~farbmetrik/QE44/QE44.HTM technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

http://130.149.60.45/~farbmetrik/QE44/QE44L0NP.PDF /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 33/33

n	HC*Fd	rgb_Fd	icr_Fd	isr_Fd	rgb*Fd	LabCH*Fd	isr_Fd	LabCH*Fd	rgb*Fd	DF*Fd	isr_Fd	LabCH*Fd	rgb*Fd	DF*Fd	isr_Fd	LabCH*Fd	rgb*Fd
1053	NW_086d	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	4.4	0.0	89.4	0.0	204.5	0.0	95.4	0.0
1054	NW_093d	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	1.9	0.0	92.2	0.0	177.8	0.0	95.4	0.0
1055	NW_100d	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	95.4	0.0	61.5	0.0	95.4	0.0
1056	NW_100d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	17.7	0.0	96.3	0.0	95.4	0.0
1057	NW_100d	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.0	0.0	22.8	0.0	151.6	0.0	95.4	0.0
1058	NW_103d	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.5	0.0	38.9	0.0	242.3	0.0	95.4	0.0
1059	NW_103d	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.8	0.0	48.8	0.0	240.2	0.0	95.4	0.0
1060	NW_106d	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.8	0.0	59.1	0.0	234.5	0.0	95.4	0.0
1061	NW_103d	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.8	0.0	69.5	0.0	234.5	0.0	95.4	0.0
1062	NW_104d	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.0	79.9	0.0	234.5	0.0	95.4	0.0
1063	NW_104d	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.7	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1064	NW_105d	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.6	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1065	NW_106d	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1066	NW_106d	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.3	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1067	NW_107d	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.3	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1068	NW_108d	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.2	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1069	NW_108d	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.2	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1070	NW_109d	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.1	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1071	NW_110d	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1072	NW_110d	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1073	NW_110d	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	84.8	0.0	234.5	0.0	95.4	0.0
1074	ROY_100_100d	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.5	0.0	200.0	0.1	78.4	2.3	95.4	0.0
1075	GY0B_100_100d	0.0	1.0	1.0	0.0	0.0	1.0	0.0	1.0	0.1	0.0	44.8	66.8	31.4	3.9	38.9	41.2
1076	Y00C_100_100d	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	58.6	45.4	58.6	45.4	237.9	2.9	21.0	0.0
1077	B00C_100_100d	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	96.5	96.5	96.5	96.5	96.5	1.3	89.1	0.0
1078	B00C_100_100d	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	25.3	23.8	25.3	23.8	25.3	23.8	25.3	23.8
1079	B50R_100_100d	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	45.0	45.0	45.0	45.0	45.0	4.7	51.9	0.0
1079	B50R_100_100d	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	75.3	75.3	75.3	75.3	75.3	357.2	0.0	330.0

Mean color difference of this page: delta E* = 4.2

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

TUB-test chart QE44; hue code: H*_d=Y25G_d colors and differences, ΔE*^{*}

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I-003320-F0

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