

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 262/360 = 0.72$

$H^*_- = G75B_-$

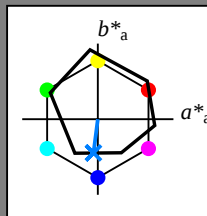
Data for any device (d) or elementary (e) colour:

HIC^*_-

hue text for the colours of this page:

$H^*_- = G75B_-$

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):

$LabCh^*_{-,Ma}$: 45 -5 -44 44 262

$HIC^*_{-,Ma}$: G75B_100_100-

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

0.0 0.5 1.0 1.0 1.0

triangle lightness T^*

% Gamut

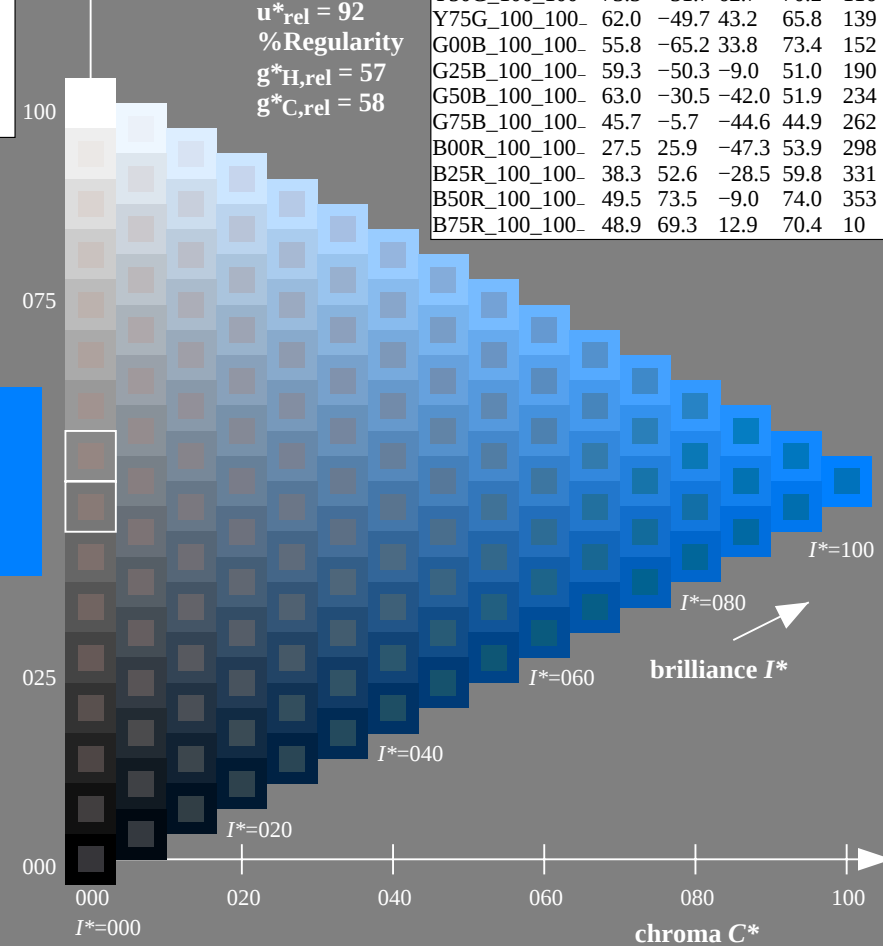
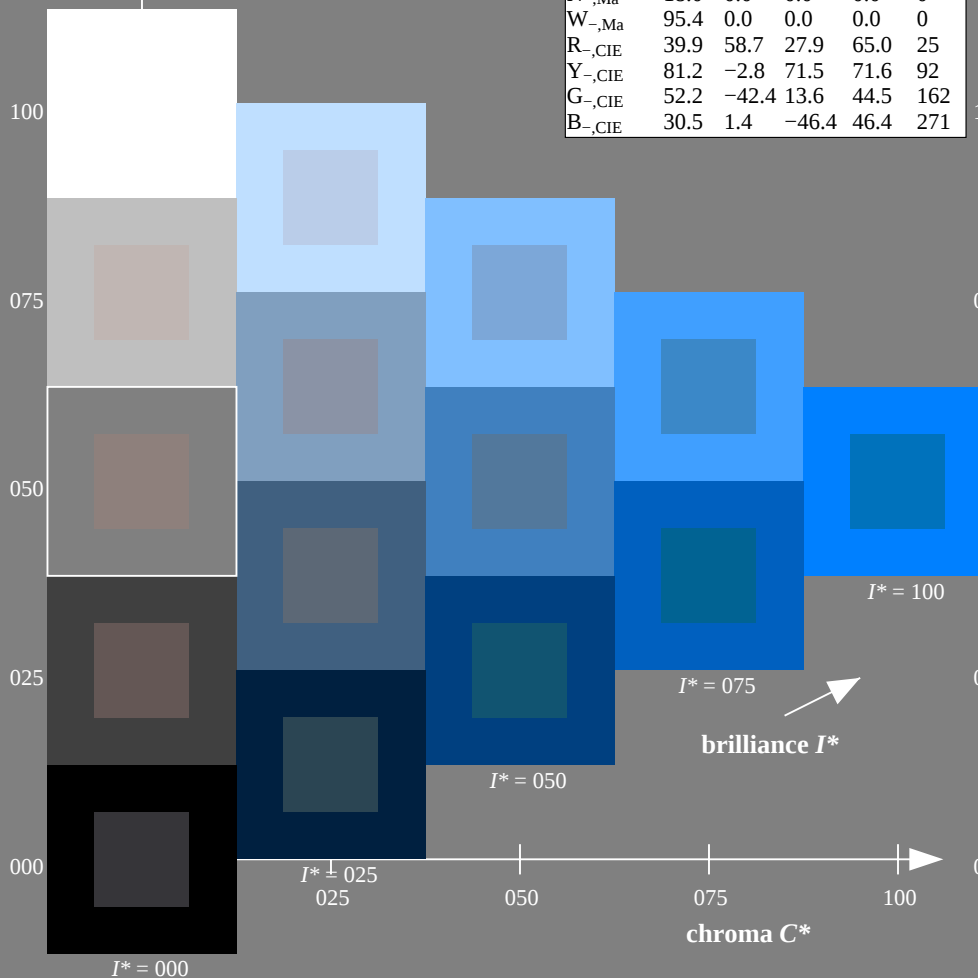
$u^*_{rel} = 92$

% 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



TUB-test chart RE05; hue code: $H^*_- = G75B_-$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

input: $rgb/cmyk \rightarrow rgb/cmyk$
output: no change

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 244/360 = 0.67$

$H^*_e = G75B_e$

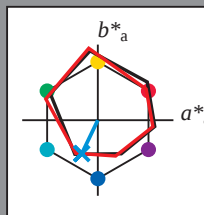
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = G75B_e$

triangle lightness T^*



ORS20a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _e ,Ma	47.6	64.9	30.9	71.9	25
Y _e ,Ma	82.9	-3.5	87.8	87.9	92
G _e ,Ma	52.4	-67.1	21.5	70.5	162
C _e ,Ma	56.6	-39.7	-29.9	49.8	216
B _e ,Ma	37.9	1.3	-45.4	45.4	271
M _e ,Ma	34.8	49.2	-30.0	57.7	328
N _e ,Ma	17.7	0.0	0.0	0.0	0
W _e ,Ma	95.4	0.0	0.0	0.0	0
R _e ,CIE	39.9	58.7	27.9	65.0	25
Y _e ,CIE	81.2	-2.8	71.5	71.6	92
G _e ,CIE	52.2	-42.4	13.6	44.5	162
B _e ,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_e, Ma: 52 \ -21 \ -44 \ 48 \ 244$

$HIC^*_e, Ma: G75B_100_100_e$

$rgbic^*_e, Ma:$

0.0 0.78 1.0 1.0 1.0

triangle lightness T^*

% Gamut

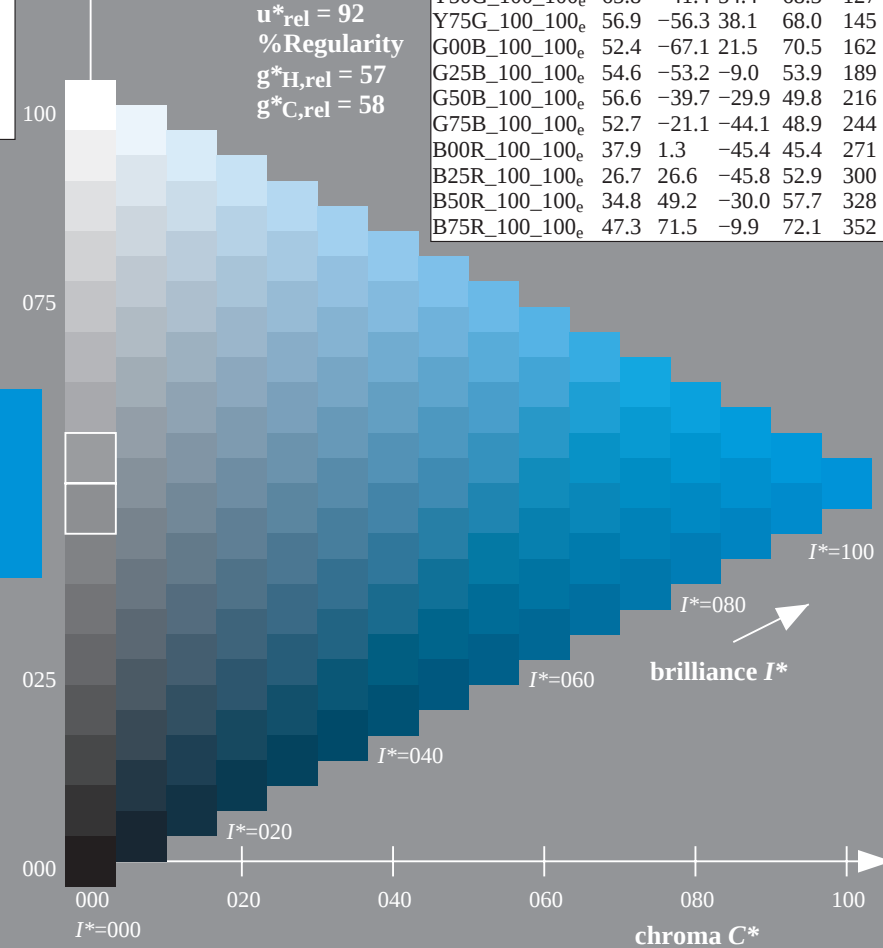
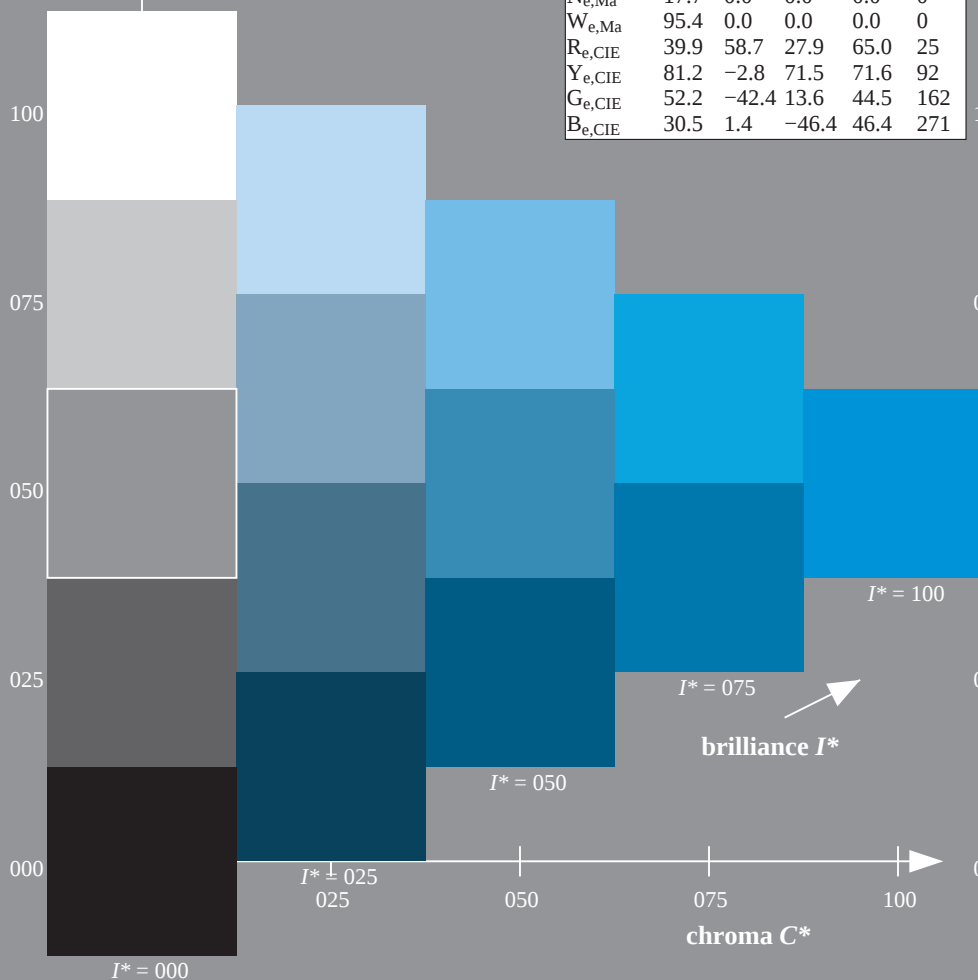
$u^*_{rel} = 92$

% Regularity

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

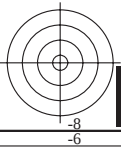
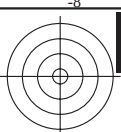
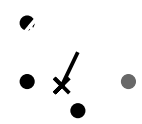
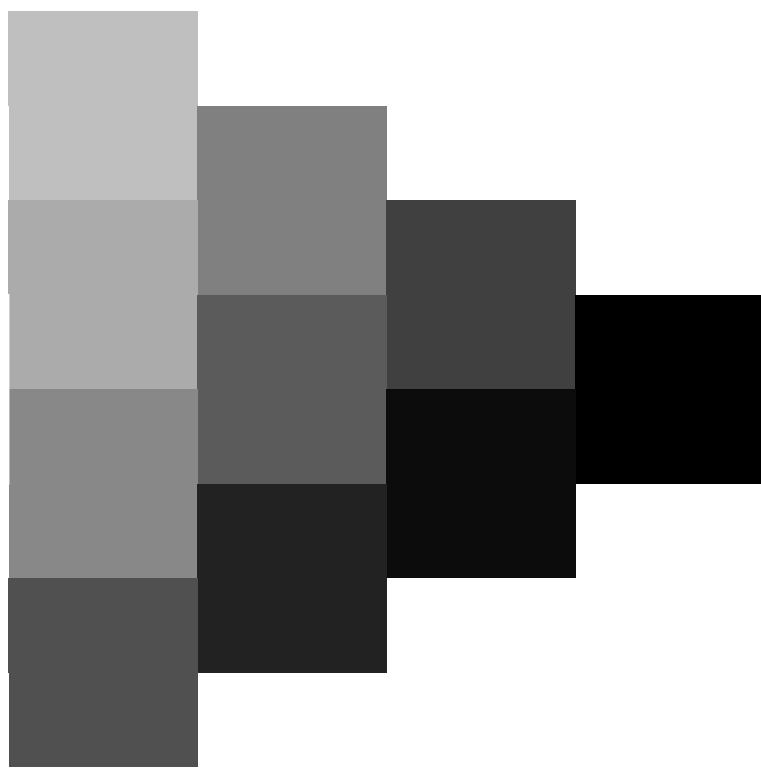
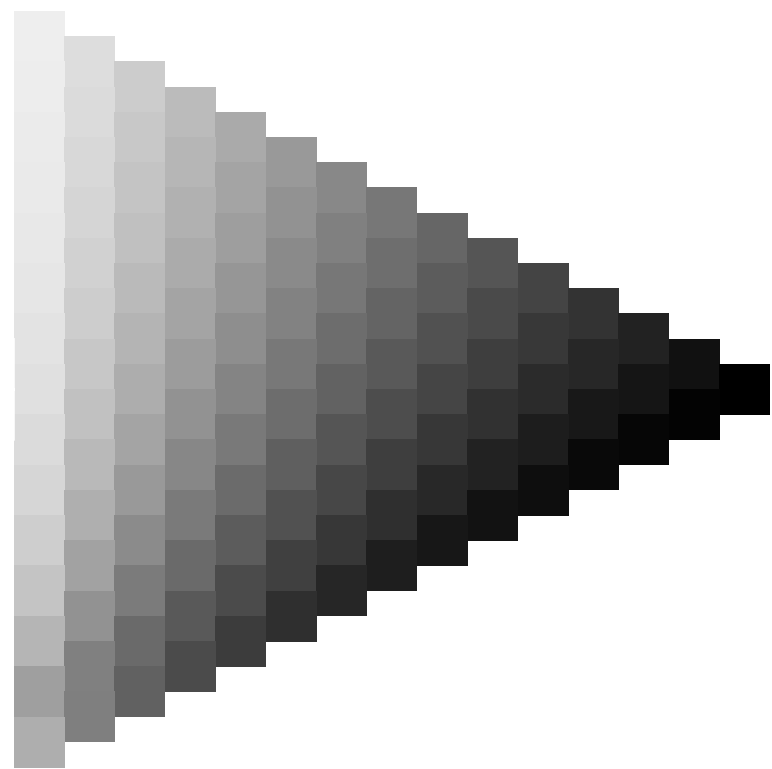
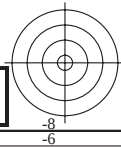
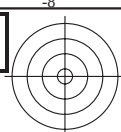
$g^*_{C,rel} = 58$

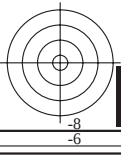
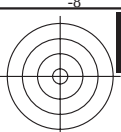
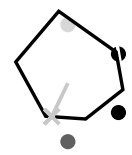
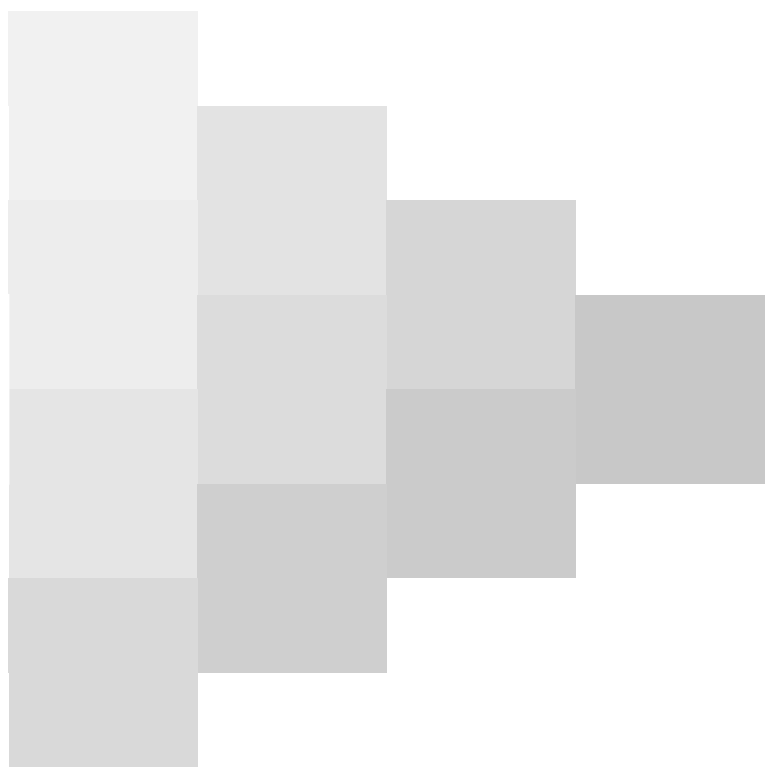
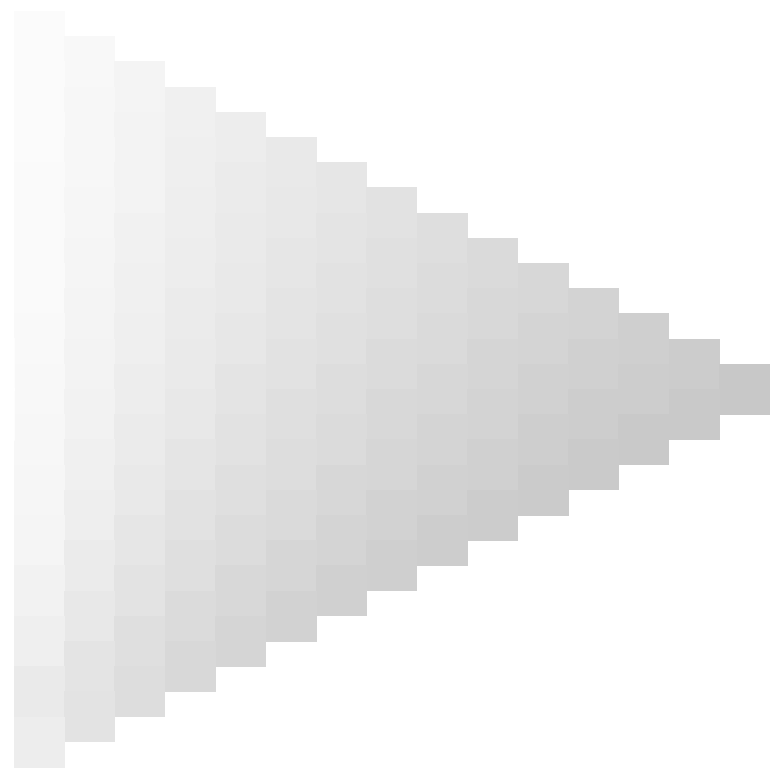
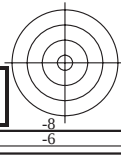
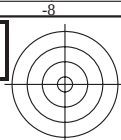
ORS20a; adapted (a) CIELAB data					
H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_e	47.6	64.9	30.9	71.9	25
R25Y_100_100_e	51.5	54.2	47.2	71.9	41
R50Y_100_100_e	60.3	35.6	59.0	68.9	58
R75Y_100_100_e	70.4	17.0	72.2	74.1	76
Y00G_100_100_e	82.9	-3.5	87.8	87.9	92
Y25G_100_100_e	76.9	-25.5	75.9	80.1	108
Y50G_100_100_e	65.8	-41.4	54.4	68.3	127
Y75G_100_100_e	56.9	-56.3	38.1	68.0	145
G00B_100_100_e	52.4	-67.1	21.5	70.5	162
G25B_100_100_e	54.6	-53.2	-9.0	53.9	189
G50B_100_100_e	56.6	-39.7	-29.9	49.8	216
G75B_100_100_e	52.7	-21.1	-44.1	48.9	244
B00R_100_100_e	37.9	1.3	-45.4	45.4	271
B25R_100_100_e	26.7	26.6	-45.8	52.9	300
B50R_100_100_e	34.8	49.2	-30.0	57.7	328
B75R_100_100_e	47.3	71.5	-9.9	72.1	352

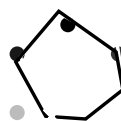
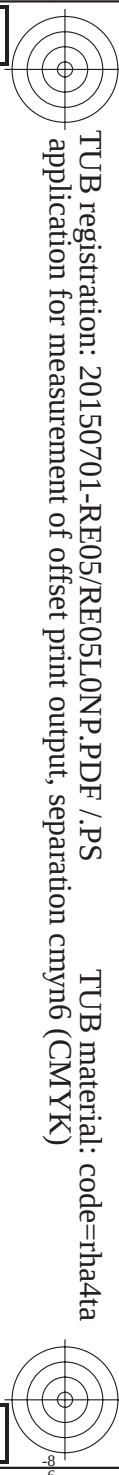


TUB-test chart RE05; hue code: $H^*_e = G75B_e$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

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







Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 244/360 = 0.67$

$H^*_e = G75B_e$

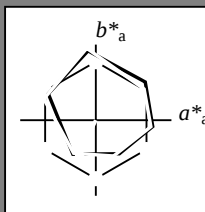
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = G75B_e$

triangle lightness T^*



ORS20a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{e,Ma}$	47.6	64.9	30.9	71.9	25
$Y_{e,Ma}$	82.9	-3.5	87.8	87.9	92
$G_{e,Ma}$	52.4	-67.1	21.5	70.5	162
$C_{e,Ma}$	56.6	-39.7	-29.9	49.8	216
$B_{e,Ma}$	37.9	1.3	-45.4	45.4	271
$M_{e,Ma}$	34.8	49.2	-30.0	57.7	328
$N_{e,Ma}$	17.7	0.0	0.0	0.0	0
$W_{e,Ma}$	95.4	0.0	0.0	0.0	0
$R_{e,CIE}$	39.9	58.7	27.9	65.0	25
$Y_{e,CIE}$	81.2	-2.8	71.5	71.6	92
$G_{e,CIE}$	52.2	-42.4	13.6	44.5	162
$B_{e,CIE}$	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{e,Ma}$: 52 -21 -44 48 244

$HIC^*_{e,Ma}$: G75B_100_100_e

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

0.0 0.78 1.0 1.0 1.0

triangle lightness T^*

% Gamut

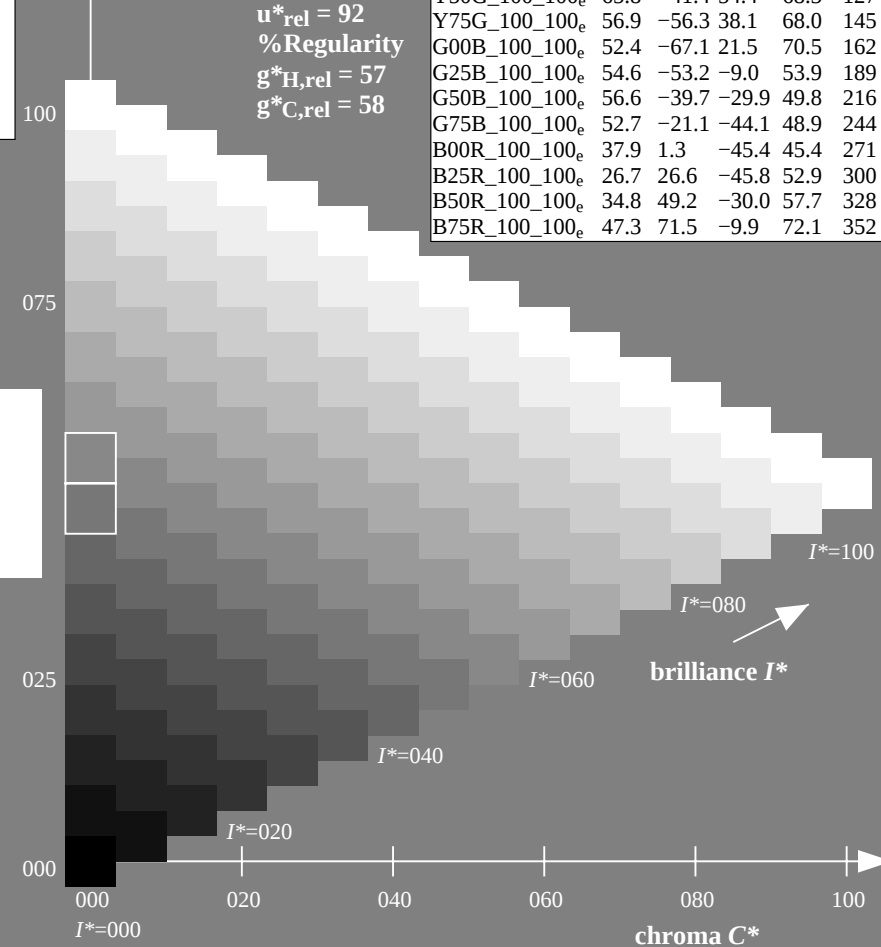
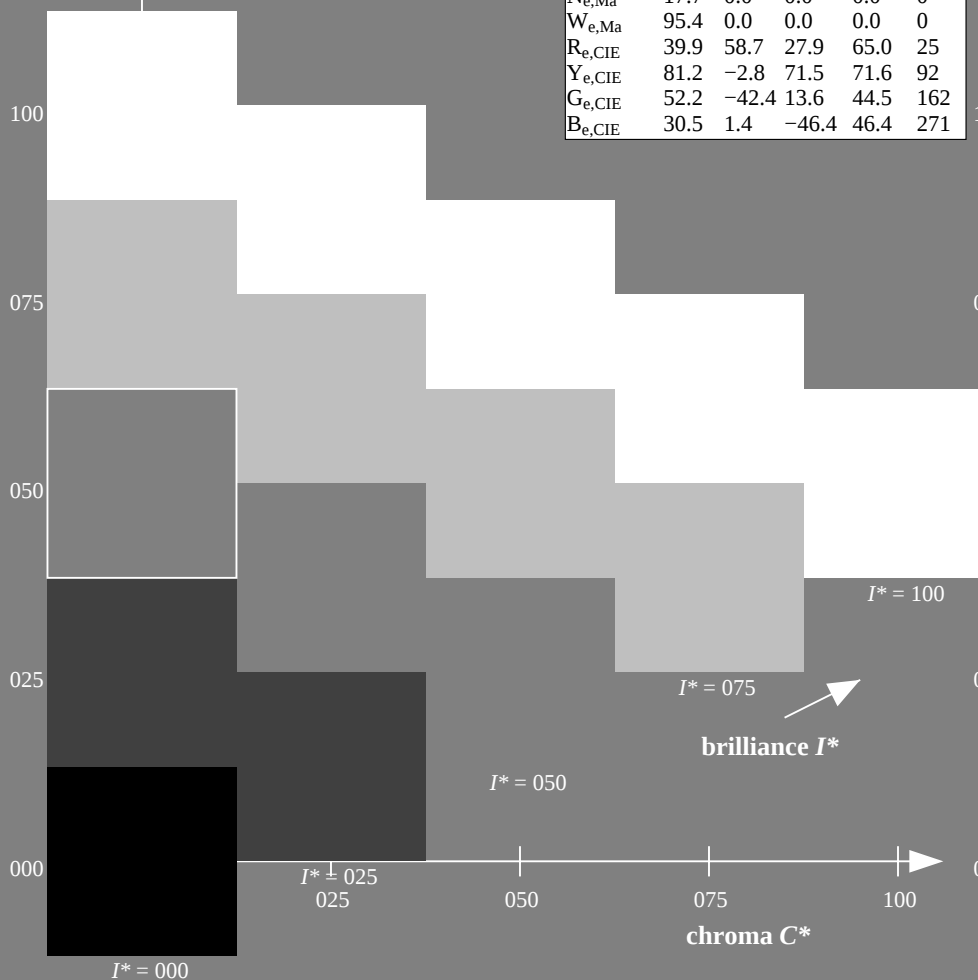
$u^*_{rel} = 92$

% Regularity

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

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

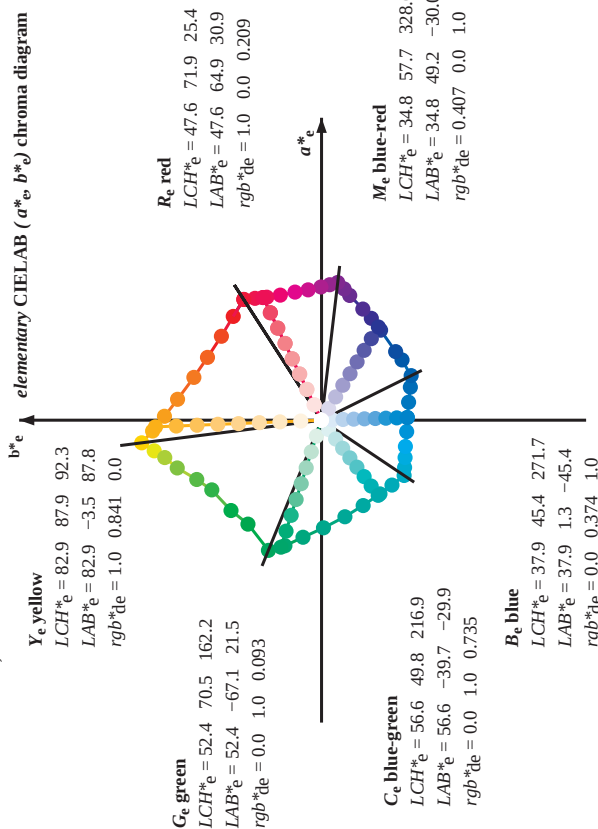
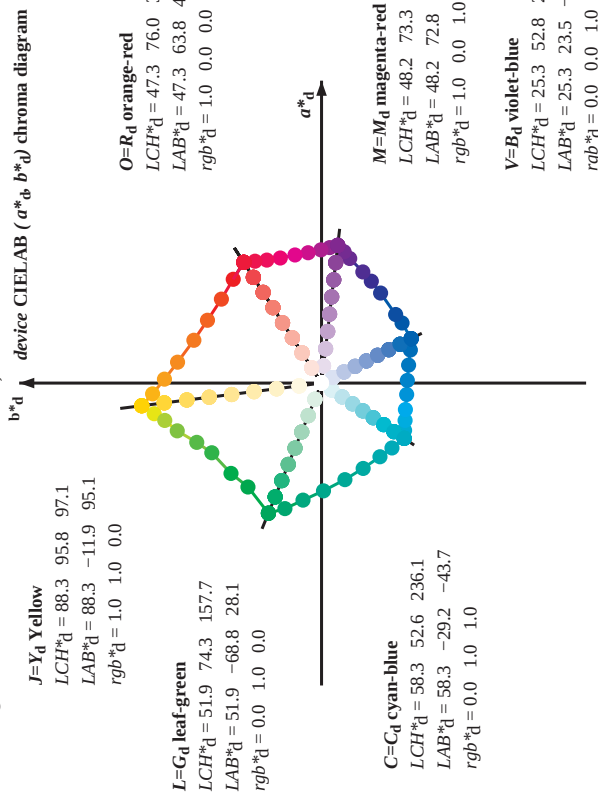
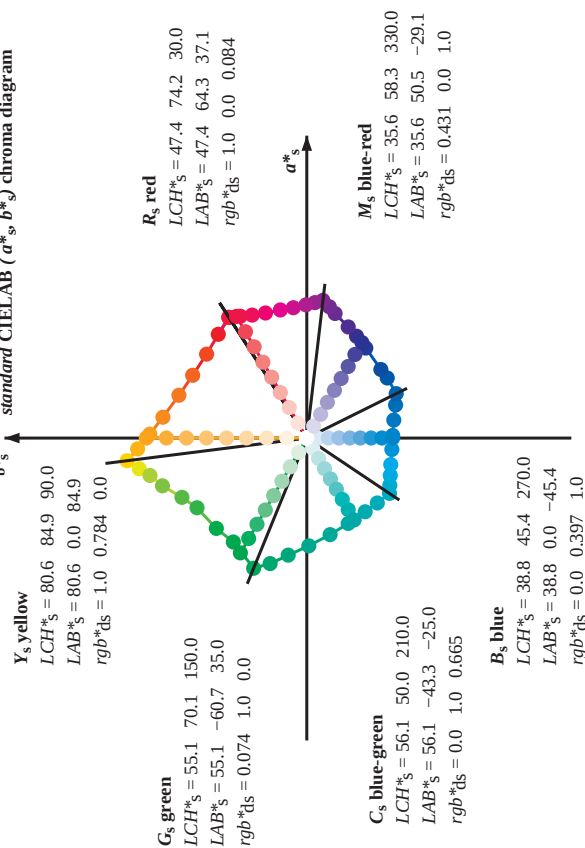
ORS20a; adapted (a) CIELAB data					
H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R00Y_{100_100_e}$	47.6	64.9	30.9	71.9	25
$R25Y_{100_100_e}$	51.5	54.2	47.2	71.9	41
$R50Y_{100_100_e}$	60.3	35.6	59.0	68.9	58
$R75Y_{100_100_e}$	70.4	17.0	72.2	74.1	76
$Y00G_{100_100_e}$	82.9	-3.5	87.8	87.9	92
$Y25G_{100_100_e}$	76.9	-25.5	75.9	80.1	108
$Y50G_{100_100_e}$	65.8	-41.4	54.4	68.3	127
$Y75G_{100_100_e}$	56.9	-56.3	38.1	68.0	145
$G00B_{100_100_e}$	52.4	-67.1	21.5	70.5	162
$G25B_{100_100_e}$	54.6	-53.2	-9.0	53.9	189
$G50B_{100_100_e}$	56.6	-39.7	-29.9	49.8	216
$G75B_{100_100_e}$	52.7	-21.1	-44.1	48.9	244
$B00R_{100_100_e}$	37.9	1.3	-45.4	45.4	271
$B25R_{100_100_e}$	26.7	26.6	-45.8	52.9	300
$B50R_{100_100_e}$	34.8	49.2	-30.0	57.7	328
$B75R_{100_100_e}$	47.3	71.5	-9.9	72.1	352



TUB-test chart RE05; hue code: $H^*_e = G75B_e$
Test chart according to DIN 33872, 3D=0, de=1, cmyk

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

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 RYGBCM_e; $h_{ab,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBCM_d; $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBCM_e; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

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

- For the rgb^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.
- For the calculation of the standard hue angle h_{ab} use for any device values rgb^*_e the equation:
$$h_{ab,s} = \arctan \left[\frac{r^*_d \cos(30) + g^*_d \cos(150)}{1 + \frac{r^*_d \sin(30) + g^*_d \sin(150)}{b^*_d}} \right] \sin(270) \quad (1)$$
- For the 48 or 360 equally spaced standard hue angles h_{ab} of the colours of maximum chroma use the seven hue angles of the 60 degree colours e : $h_{ab,e} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:
$$h_{48ab,si} = h_{ab,si} + j \left[\frac{h_{ab,si+1} - h_{ab,si}}{18} \right] \quad (i=0,1,...,5; j=0,1,...,7) \quad (2)$$
$$h_{360ab,sij} = h_{ab,si} + j \left[\frac{h_{ab,si+1} - h_{ab,si}}{60} \right] \quad (i=0,1,...,5; j=0,1,...,59) \quad (3)$$
- For the 48 or 360 elementary hue angles h_{ab} 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:
$$h_{48ab,ej} = h_{ab,ei} + j \left[\frac{h_{ab,ei+1} - h_{ab,ei}}{18} \right] \quad (i=0,1,...,5; j=0,1,...,7) \quad (4)$$
$$h_{360ab,eij} = h_{ab,ei} + j \left[\frac{h_{ab,ei+1} - h_{ab,ei}}{60} \right] \quad (i=0,1,...,5; j=0,1,...,59) \quad (5)$$
- For any elementary hue angle h_{ab} there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.
- The values rgb^*_e produce the output of the device-independent elementary hues

1-013630-L0 RE050-71 LAB*_{ab0}, YN=0%, XY Z_{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 RE05; hue code: H*_e=G75B_e
48 step hue circles; $rgb-LabCh$ -tables

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

Output: Offset standard print; separation cmyk6*, D65, page 7/33

technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

<http://130.149.60.45/~farbmatrik/RE05/RE05L0NP.PDF> /PS; transfer output N; no 3D-linearization (OL) in file (F) or PS-startup (S), page 12/33

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

-0131130-I 0	RF050-71	LAB* a0.YN=0%. XYZnw=2.4.2.5.2.6.85.1.88.8.104.3.LAB*nw=17.7.0.0.0.0.95.5.0.0.0.0
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Output: Offset standard print: separation cmyk6*. D65. page 12/33

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 RYGBCM; $h_{ab,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;									
Six hue angles of the device colours RYGBCM; $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBCM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$									
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{ds361MI}$	$rgb^*_{ds361MI}$	$LAB^*_{ds361MI}$	$LAB^*_{ds361MI}$	$LAB^*_{ds361MI}$	$LAB^*_{ds361MI}$	$LAB^*_{ds361MI}$
170	165	175	0.0	1.0	0.25	53.2	-61.9	9.8	62.7
172	166	176	0.0	1.0	0.266	53.4	-61.4	8.2	61.9
173	167	177	0.0	1.0	0.283	53.5	-60.8	6.7	61.2
175	168	178	0.0	1.0	0.3	53.6	-60.2	5.2	60.4
176	169	179	0.0	1.0	0.316	53.7	-59.5	3.7	59.6
177	170	180	0.0	1.0	0.333	53.8	-58.8	2.3	58.9
179	171	181	0.0	1.0	0.35	53.9	-58.1	0.9	58.1
180	172	182	0.0	1.0	0.366	54.0	-57.3	-0.4	57.3
181	173	183	0.0	1.0	0.383	54.1	-56.6	-1.8	56.6
183	174	184	0.0	1.0	0.4	54.2	-55.9	-3.5	56.0
185	175	185	0.0	1.0	0.416	54.3	-55.2	-5.0	55.5
186	176	186	0.0	1.0	0.433	54.4	-54.5	-6.6	54.9
188	177	188	0.0	1.0	0.45	54.5	-53.7	-8.0	54.3
190	178	187	0.0	1.0	0.466	54.6	-52.8	-9.5	53.7
191	179	188	0.0	1.0	0.483	54.7	-52.0	-10.9	53.1
193	180	189	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5
195	181	190	0.0	1.0	0.516	54.9	-50.4	-13.7	52.2
196	182	191	0.0	1.0	0.533	55.1	-49.6	-15.0	51.9
198	183	192	0.0	1.0	0.55	55.2	-48.9	-16.3	51.6
200	184	193	0.0	1.0	0.566	55.3	-48.1	-17.6	51.2
201	185	194	0.0	1.0	0.583	55.5	-47.3	-18.9	50.9
203	186	195	0.0	1.0	0.6	55.6	-46.4	-20.1	50.6
205	187	195	0.0	1.0	0.616	55.7	-45.5	-21.3	50.3
206	188	196	0.0	1.0	0.633	55.8	-44.7	-22.5	50.1
208	189	197	0.0	1.0	0.65	56.0	-44.0	-23.8	50.1
210	190	198	0.0	1.0	0.666	56.1	-43.2	-25.0	50.0
211	191	199	0.0	1.0	0.683	56.2	-42.4	-26.3	49.9
213	192	200	0.0	1.0	0.7	56.3	-41.6	-27.5	49.9
215	193	201	0.0	1.0	0.716	56.5	-40.8	-28.6	49.8
216	194	202	0.0	1.0	0.733	56.6	-39.9	-29.8	49.8
218	195	203	0.0	1.0	0.75	56.7	-38.9	-30.9	49.7
219	196	204	0.0	1.0	0.766	56.8	-38.4	-31.7	49.8
220	197	205	0.0	1.0	0.783	56.9	-37.8	-32.6	49.9
221	198	206	0.0	1.0	0.8	57.0	-37.2	-33.5	50.1
223	199	206	0.0	1.0	0.816	57.1	-36.6	-34.3	50.2
224	200	207	0.0	1.0	0.833	57.3	-36.0	-35.2	50.3
225	201	208	0.0	1.0	0.85	57.4	-35.3	-36.0	50.4
226	202	209	0.0	1.0	0.866	57.5	-34.6	-36.8	50.6
227	203	210	0.0	1.0	0.883	57.6	-34.0	-37.7	50.8
229	204	211	0.0	1.0	0.9	57.7	-33.4	-38.6	51.0
230	205	212	0.0	1.0	0.916	57.8	-32.8	-39.4	51.3
231	206	213	0.0	1.0	0.933	57.9	-32.1	-40.3	51.6
232	207	214	0.0	1.0	0.95	58.0	-31.4	-41.2	51.8
233	208	215	0.0	1.0	0.966	58.1	-30.7	-42.0	52.1
235	209	216	0.0	1.0	0.983	58.2	-30.0	-42.9	52.3
236	210	216	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6
1-0131230-L0 RE050-71 LAB* h_{ab} , YN=0%, XY Znw=2.4, 2.5, 2.6, 85.1, 88.8, 104.3, LAB*rw=17.7, 0.0, 95.5, 0.0, 0.0									
TUB-test chart RE05; hue code: H* $_{\phi}$ =G75Be									
48 step hue circles; $rgb-LabCh$ *tables									
input: $rgb/cmyk$ -> rgb_e output: transfer to $cmyk_e$									
Output: Offset standard print; separation cmyk6*, D65, page 13/38									

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 RYGBCM; $h_{ab,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;										
Six hue angles of the device colours RYGBCM; $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBCM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$										
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{ds361MI}$	$LAB^*_{ds361MI} (x=LabCh)$	$rgb^*_{ds361MI}$	$LAB^*_{ds361MI} (x=LabCh)$	$rgb^*_{ds361MI}$	$LAB^*_{ds361MI} (x=LabCh)$	$rgb^*_{ds361MI}$	
281	255	258	0.0	2.5	1.0	33.3	9.4	-46.0	47.0	281
282	256	258	0.0	2.33	1.0	32.7	10.5	-46.2	47.4	282
283	257	259	0.0	2.16	1.0	32.0	11.5	-46.4	47.8	283
285	258	260	0.0	2.2	1.0	31.4	12.5	-46.5	48.2	285
286	259	261	0.0	0.183	1.0	30.8	13.6	-46.7	48.6	286
287	260	262	0.0	0.166	1.0	30.1	14.7	-46.8	49.0	287
288	261	263	0.0	0.15	1.0	29.5	15.8	-46.9	49.4	288
289	262	264	0.0	0.133	1.0	28.9	16.8	-46.9	49.9	289
290	263	265	0.0	0.116	1.0	28.3	17.8	-47.0	50.3	290
291	264	266	0.0	0.1	1.0	27.5	18.6	-47.1	50.6	291
292	265	267	0.0	0.083	1.0	27.0	19.4	-47.1	51.0	292
293	266	268	0.0	0.066	1.0	27.0	20.2	-47.2	51.4	293
293	267	269	0.0	0.049	1.0	26.6	21.0	-47.3	51.7	293
294	268	269	0.0	0.033	1.0	26.2	21.8	-47.3	52.1	294
295	269	270	0.0	0.016	1.0	25.7	22.6	-47.3	52.5	295
296	270	271	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296
297	271	272	0.0	0.016	0.0	25.8	24.6	-46.8	52.9	297
299	272	273	0.0	0.033	0.0	26.3	25.8	-46.2	52.9	299
300	273	274	0.0	0.05	0.0	26.9	26.9	-45.6	52.9	300
301	274	275	0.0	0.066	0.0	27.4	28.0	-45.0	53.0	301
303	275	276	0.0	0.083	0.0	27.9	29.1	-44.3	53.0	303
304	276	277	0.1	0.0	1.0	28.5	30.2	-44.3	53.1	304
306	277	278	0.116	0.0	1.0	29.0	31.2	-42.9	53.1	306
307	278	279	0.133	0.0	1.0	29.4	32.1	-42.3	53.1	307
307	279	280	0.15	0.0	1.0	29.7	32.7	-41.9	53.2	307
308	280	281	0.166	0.0	1.0	30.0	33.3	-41.5	53.2	308
309	281	282	0.183	0.0	1.0	30.3	33.9	-41.0	53.2	309
310	282	283	0.2	0.0	1.0	30.6	34.5	-40.6	53.3	310
311	283	284	0.216	0.0	1.0	30.9	35.0	-40.1	53.3	311
311	284	285	0.233	0.0	1.0	31.2	35.6	-39.6	53.3	311
312	285	285	0.25	0.0	1.0	31.5	36.2	-39.2	53.4	312
314	286	286	0.266	0.0	1.0	31.8	37.8	-38.3	53.8	314
316	287	287	0.283	0.0	1.0	32.1	39.4	-37.4	54.3	316
318	288	288	0.3	0.0	1.0	32.4	40.9	-36.4	54.8	318
320	289	289	0.316	0.0	1.0	32.7	42.4	-35.3	55.3	320
322	290	290	0.333	0.0	1.0	33.0	43.9	-34.2	55.7	322
323	291	291	0.35	0.0	1.0	33.3	45.4	-33.1	56.2	323
325	292	292	0.366	0.0	1.0	33.6	46.9	-31.8	56.7	325
327	293	293	0.383	0.0	1.0	34.0	48.0	-30.9	57.1	327
328	294	294	0.4	0.0	1.0	34.6	48.9	-30.3	57.5	328
329	295	295	0.416	0.0	1.0	35.1	49.7	-29.7	57.9	329
330	296	296	0.433	0.0	1.0	35.7	50.5	-29.0	58.3	330
331	297	297	0.45	0.0	1.0	36.2	51.4	-28.4	58.7	331
332	298	298	0.466	0.0	1.0	36.7	52.2	-27.7	59.1	332
332	299	299	0.483	0.0	1.0	37.3	53.0	-27.0	59.5	332
333	300	300	0.5	0.0	1.0	37.8	53.8	-26.3	59.9	333

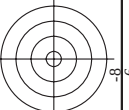
<http://130.149.60.45/~farbmatrik/RE05/RE05LONP.PDF> /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 17/33

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 RYGCMB*: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

	α	β
LAB*1a0, YN=0%, XYZnw=2.4, 2.5, 2.6, 85.1, 88.8, 104.3, LAB*nw=17.7, 0.0, 0.0, 95.5, 0.0, 0.0		

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

Output: Offset standard print; separation cmyn6*, D65 page 17/33



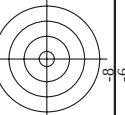
TUB material: code=rha4ta
nyn6 (CMYK)

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

http://130.149.60.45/~farbmatrik/RE05/RE05LONP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 22/33

TUB-test chart RE05; hue code: H_e^{*}=G75B_e

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

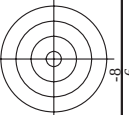


TUB material: code=rha4ta
nyn6 (CMYK)

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

RE050-7N, Page 23/33-F

see similar files: <http://130.149.60.45/~farbmatrik/RE05/RE05.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

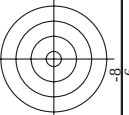


TUB material: code=rha4ta
nyn6 (CMYK)

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

RE050-7N, Page 26/33-F

1-0132530-F0 RE050-7N, Page 26/33-F



TUB material: code=rha4ta
nyn6 (CMYK)

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

I-0130300-F0

RE050-7N, Page 31/33-F

TUB-test chart RE05; hue code: $H_e^* = G75B_e$
colors and differences, ΔE^*

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

RE050-7N, Page 31/33-F

TUB-test chart RE05; hue code: $H_e^*=G75B_e$

see similar files: <http://130.149.60.45/~farbmetrik/RE05/RE05.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

n	HC*Fe	rgb*Fe	icT*Fe	hsa_Fa	rgb*Fe	LabCh*Fe	LabCh*Fe	DF*Fe	haM,e	rgb*Me	LabCh*Me	00	00	00
1053	NW_086e	0.866 0.866 0.866	0.866 0.866 0.866	360	0.866 0.866 0.866	85.0	89.4	204.5	360	1.0	95.4	0.0	0.0	0.0
1054	NW_093e	0.933 0.933 0.933	0.933 0.933 0.933	360	0.933 0.933 0.933	90.2	92.2	177.8	360	1.0	95.4	0.0	0.0	0.0
1055	NW_100e	1.0 1.0 1.0	1.0 1.0 1.0	360	1.0 1.0 1.0	95.4	95.4	61.5	360	1.0	95.4	0.0	0.0	0.0
1056	NW_000e	0.0 0.0 0.0	0.0 0.0 0.0	360	0.0 0.0 0.0	0.0	0.0	96.3	360	1.0	95.4	0.0	0.0	0.0
1057	NW_006e	0.066 0.066 0.066	0.066 0.066 0.066	360	0.066 0.066 0.066	22.8	22.3	151.6	360	1.0	95.4	0.0	0.0	0.0
1058	NW_013e	0.133 0.133 0.133	0.133 0.133 0.133	360	0.133 0.133 0.133	30.4	30.4	242.3	360	1.0	95.4	0.0	0.0	0.0
1059	NW_020e	0.2 0.2 0.2	0.2 0.2 0.2	360	0.2 0.2 0.2	33.2	35.9	243.3	360	1.0	95.4	0.0	0.0	0.0
1060	NW_026e	0.266 0.266 0.266	0.266 0.266 0.266	360	0.266 0.266 0.266	38.3	45.6	240.2	360	1.0	95.4	0.0	0.0	0.0
1061	NW_033e	0.333 0.333 0.333	0.333 0.333 0.333	360	0.333 0.333 0.333	43.6	51.9	235.4	360	1.0	95.4	0.0	0.0	0.0
1062	NW_040e	0.4 0.4 0.4	0.4 0.4 0.4	360	0.4 0.4 0.4	48.8	61.7	234.3	360	1.0	95.4	0.0	0.0	0.0
1063	NW_046e	0.466 0.466 0.466	0.466 0.466 0.466	360	0.466 0.466 0.466	53.9	67.0	235.2	360	1.0	95.4	0.0	0.0	0.0
1064	NW_053e	0.533 0.533 0.533	0.533 0.533 0.533	360	0.533 0.533 0.533	59.1	72.1	231.6	360	1.0	95.4	0.0	0.0	0.0
1065	NW_060e	0.6 0.6 0.6	0.6 0.6 0.6	360	0.6 0.6 0.6	64.3	76.7	233.5	360	1.0	95.4	0.0	0.0	0.0
1066	NW_066e	0.666 0.666 0.666	0.666 0.666 0.666	360	0.666 0.666 0.666	69.5	80.9	225.3	360	1.0	95.4	0.0	0.0	0.0
1067	NW_073e	0.734 0.734 0.734	0.734 0.734 0.734	360	0.734 0.734 0.734	74.7	84.8	221.2	360	1.0	95.4	0.0	0.0	0.0
1068	NW_080e	0.8 0.8 0.8	0.8 0.8 0.8	360	0.8 0.8 0.8	79.9	88.3	220.3	360	1.0	95.4	0.0	0.0	0.0
1069	NW_086e	0.866 0.866 0.866	0.866 0.866 0.866	360	0.866 0.866 0.866	85.0	89.4	215.8	360	1.0	95.4	0.0	0.0	0.0
1070	NW_093e	0.933 0.933 0.933	0.933 0.933 0.933	360	0.933 0.933 0.933	90.2	92.2	212.8	360	1.0	95.4	0.0	0.0	0.0
1071	NW_100e	1.0 1.0 1.0	1.0 1.0 1.0	360	1.0 1.0 1.0	95.4	95.4	125.8	360	1.0	95.4	0.0	0.0	0.0
1072	NW_000e	0.0 0.0 0.0	0.0 0.0 0.0	360	0.0 0.0 0.0	0.0	0.0	92.4	360	1.0	95.4	0.0	0.0	0.0
1073	RO0Y_100_100e	1.0 0.0 0.0	1.0 0.0 0.0	360	1.0 0.0 0.0	17.7	95.6	78.4	360	1.0	95.4	0.0	0.0	0.0
1074	G50B_100_100e	0.0 1.0 0.0	0.0 1.0 0.0	360	0.0 1.0 0.0	95.4	66.8	75.2	360	1.0	95.4	0.0	0.0	0.0
1075	Y00B_100_100e	0.0 0.0 1.0	0.0 0.0 1.0	360	0.0 0.0 1.0	0.0	44.8	31.4	360	1.0	95.4	0.0	0.0	0.0
1076	B00R_100_100e	0.0 0.0 0.0	0.0 0.0 0.0	210	0.0 0.0 0.0	56.6	45.4	53.6	195	0.0	0.0	0.0	0.0	0.0
1077	B00R_100_100e	0.0 1.0 0.0	0.0 1.0 0.0	210	0.0 1.0 0.0	82.9	92.3	96.2	81	0.0	0.0	0.0	0.0	0.0
1078	B00R_100_100e	0.0 0.0 1.0	0.0 0.0 1.0	210	0.0 0.0 1.0	42.8	25.3	299.0	248	0.0	0.0	0.0	0.0	0.0
1079	B50R_100_100e	0.0 0.0 0.0	0.0 0.0 0.0	330	0.0 0.0 0.0	34.4	35.3	34.6	294	0.0	0.0	0.0	0.0	0.0
					0.407	0.0	75.3	357.5	293	0.407	0.0	0.0	0.0	0.0

Mean color difference of this page:

delta E** = 7.6

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

TUB-test chart RE05; hue code: H*_e=G75Be
colors and differences, ΔE**