

Entrada i salida: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 68/360 = 0.19$

$H^*_ = R50Y_$

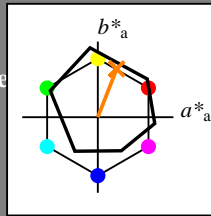
Datos del dispositivo (d) o elemental (e) color:

$HIC^*_$

código de tono para los colores de esta página:

$H^*_ = R50Y_$

triángulo claridad  $T^*$



ORS18a; datos adaptados CIELAB (a)					
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

Los datos de color máximo (Ma):

$LabCh^*_{-,Ma}$ : 68 25 63 68 68

$HIC^*_{-,Ma}$ : R50Y\_100\_100\_

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

1.0 0.5 0.0 1.0 1.0

triángulo claridad  $T^*$

%Gama

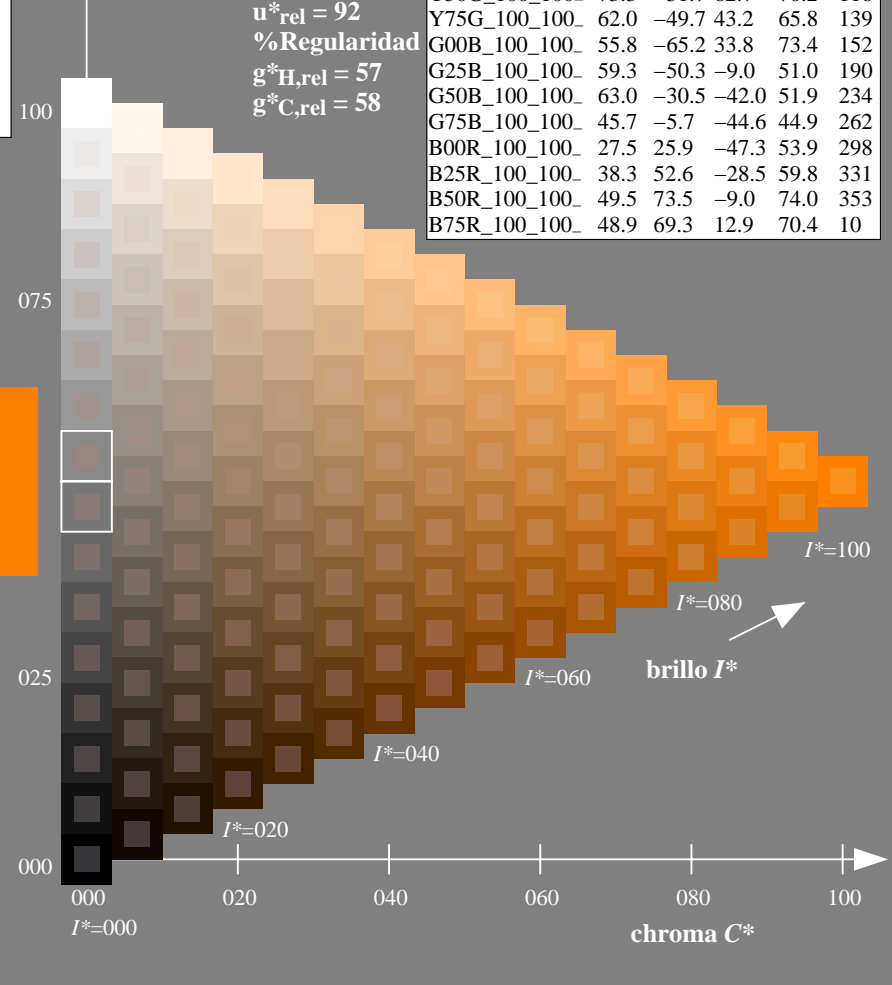
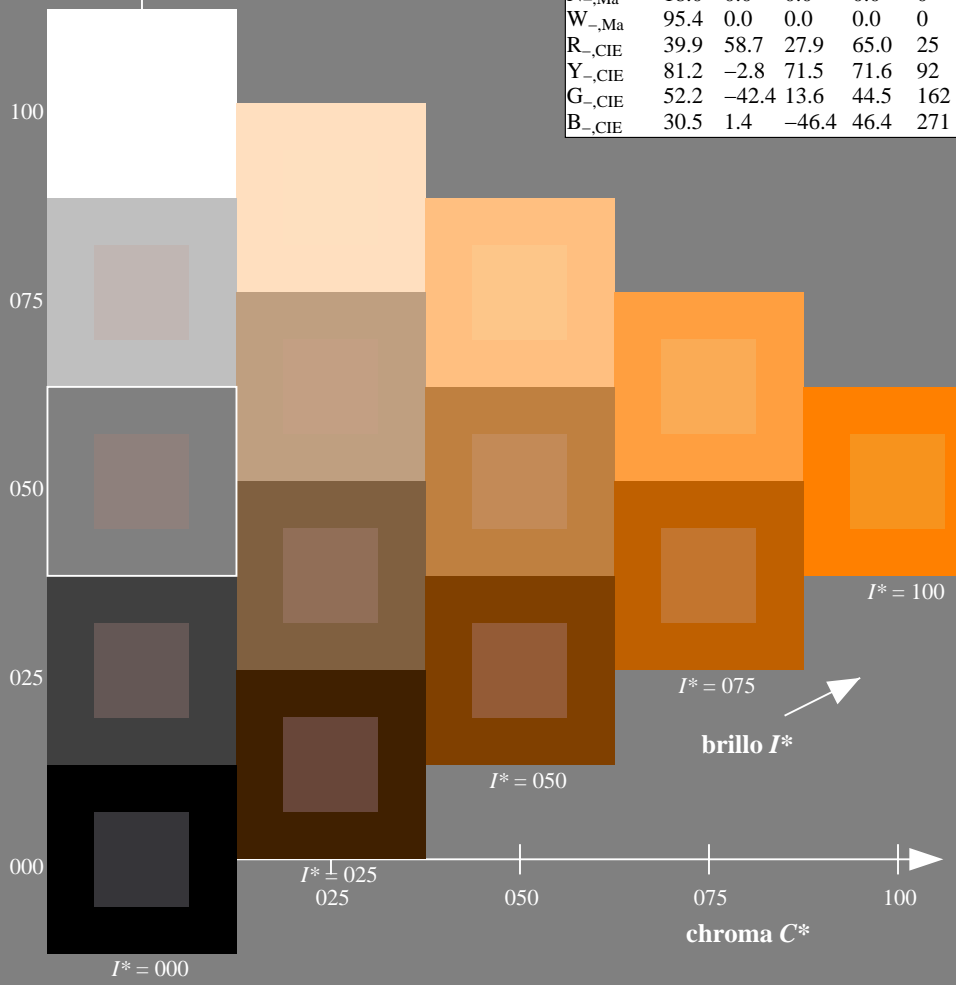
$u^*_{rel} = 92$

%Regularidad

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

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

ORS20a; datos adaptados CIELAB (a)					
$H^*_$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
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



vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS15/QS15.HTM>  
 información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS  
 aplicación para la medida salida en la impresión offset

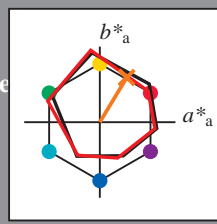
TUB material: code=rh4ta

Entrada i salida: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 58/360 = 0.16$

$H^*_e = R50Y_e$

Datos del dispositivo (d) o elemental (e) color:

$HIC^*_e$   
código de tono para los colores  
esta página:  
 $H^*_e = R50Y_e$   
triángulo claridad  $T^*$



ORS20a; datos adaptados CIELAB (a)

name	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
Re,Ma	47.6	64.9	30.9	71.9
Ye,Ma	82.9	-3.5	87.8	87.9
Ge,Ma	52.4	-67.1	21.5	70.5
Ce,Ma	56.6	-39.7	-29.9	49.8
Be,Ma	37.9	1.3	-45.4	45.4
Me,Ma	34.8	49.2	-30.0	57.7
Ne,Ma	17.7	0.0	0.0	0.0
We,Ma	95.4	0.0	0.0	0.0
Re,CIE	39.9	58.7	27.9	65.0
Ye,CIE	81.2	-2.8	71.5	71.6
Ge,CIE	52.2	-42.4	13.6	44.5
Be,CIE	30.5	1.4	-46.4	46.4

Los datos de color máximo (Ma):

LabCh $^*_e, Ma$ : 60 35 59 68 58

$HIC^*_e, Ma$ : R50Y\_100\_100\_e

rgbic $^*_e, Ma$ :

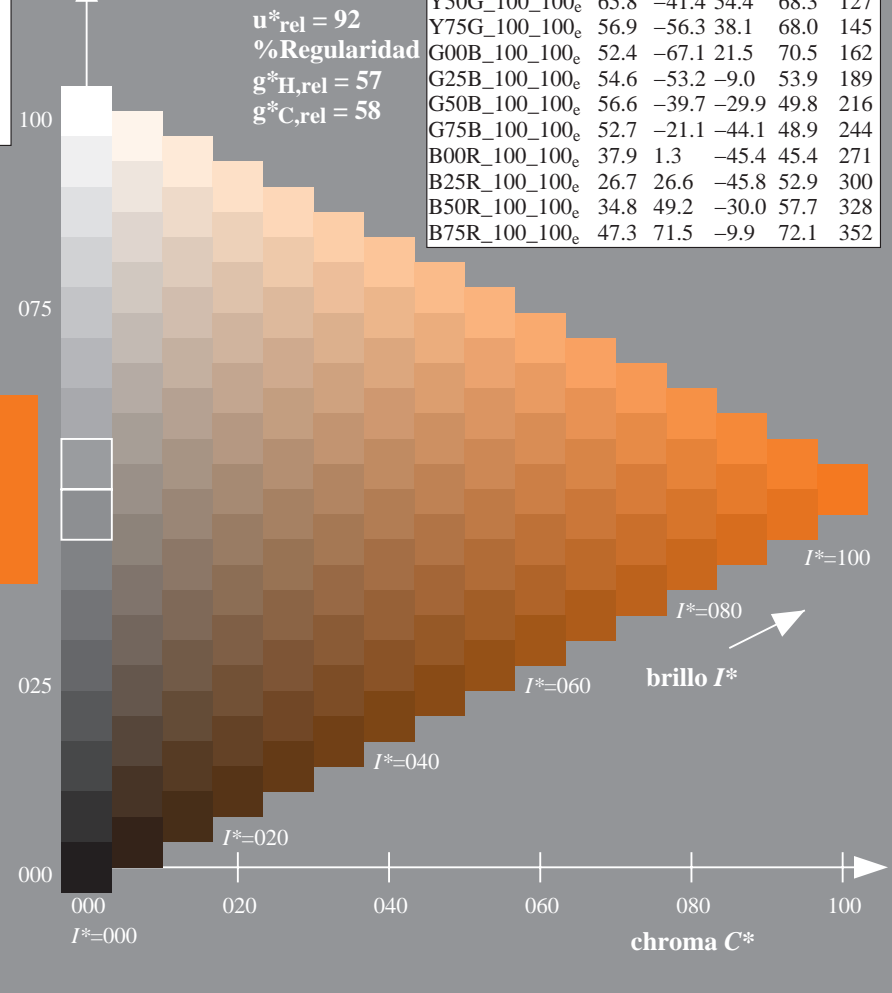
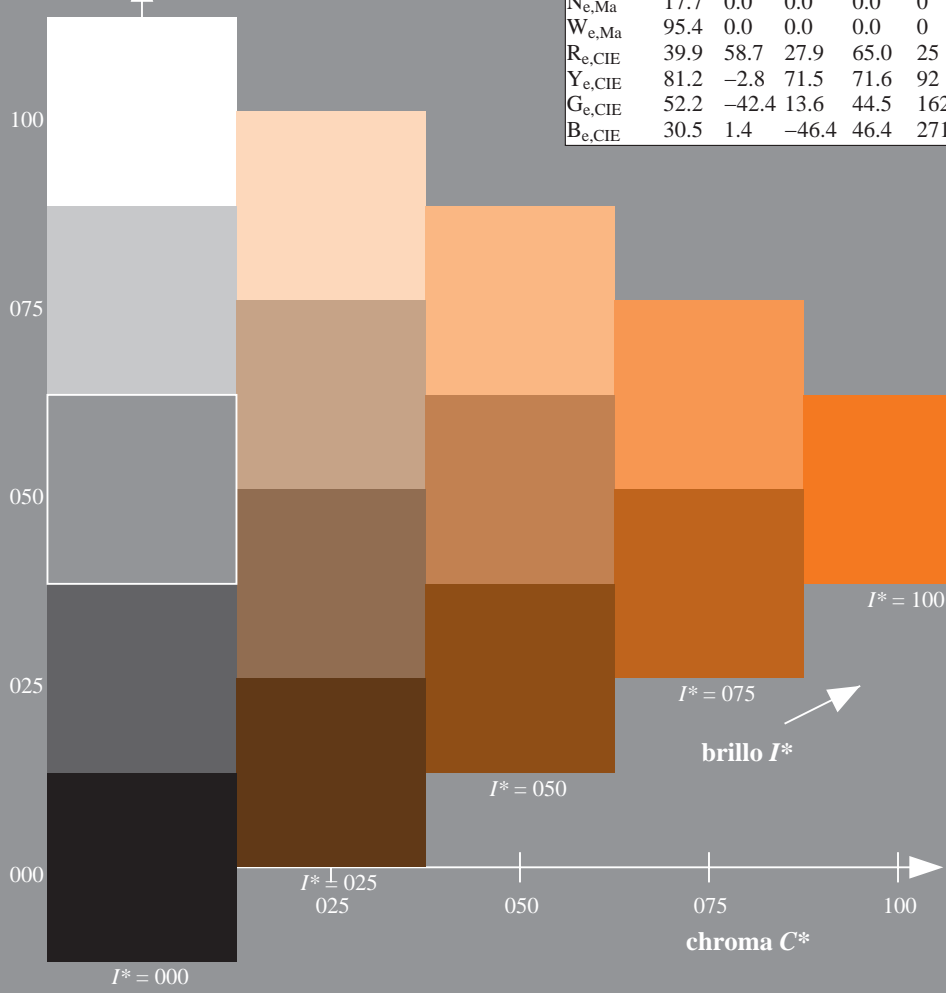
1.0 0.34 0.0 1.0 1.0

triángulo claridad  $T^*$

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

ORS20a; datos adaptados CIELAB (a)

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



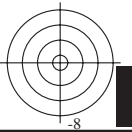
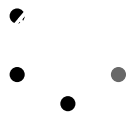
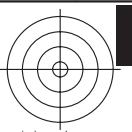
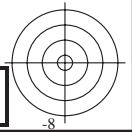
vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS15/QS15.HTM>  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

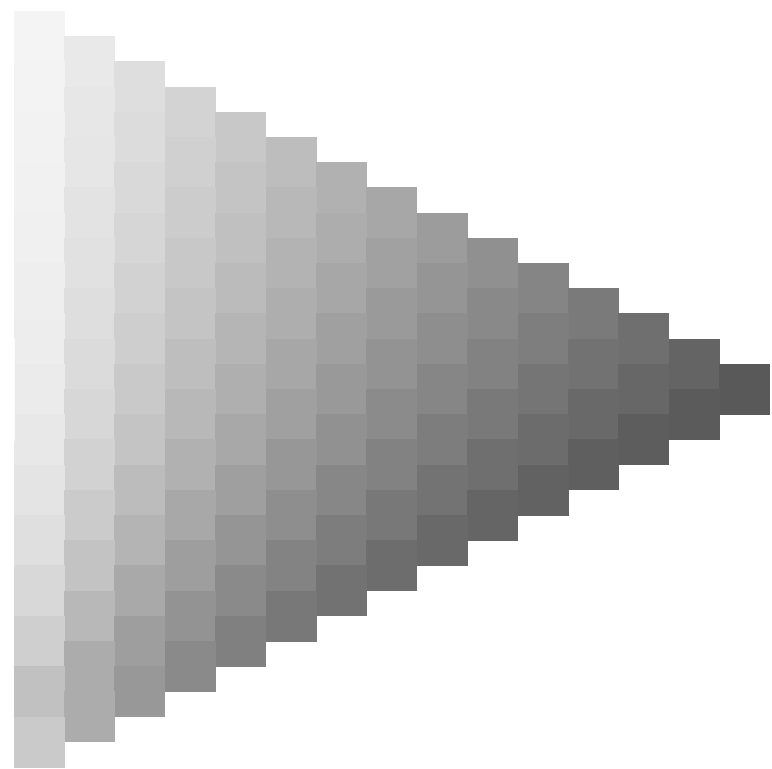
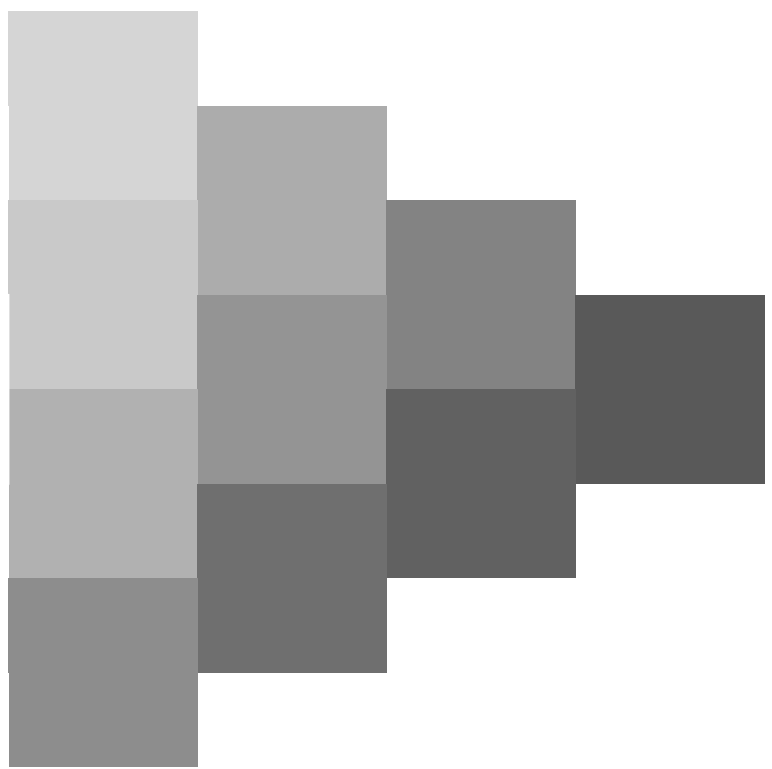
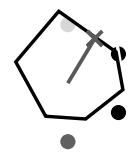
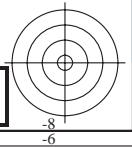
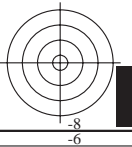
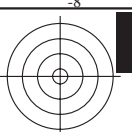
TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmy6 (CMYK)  
TUB material: code=rh4ta

gráfico TUB-QS15; código de tono:  $H^*_e=R50Y_e$   
gráfico según a DIN 33872, 3D=0, de=1, cmyk

entrada:  $rgb/cmyk \rightarrow rgb_e$   
salida: transfiera a  $cmyk_e$







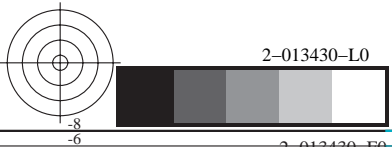
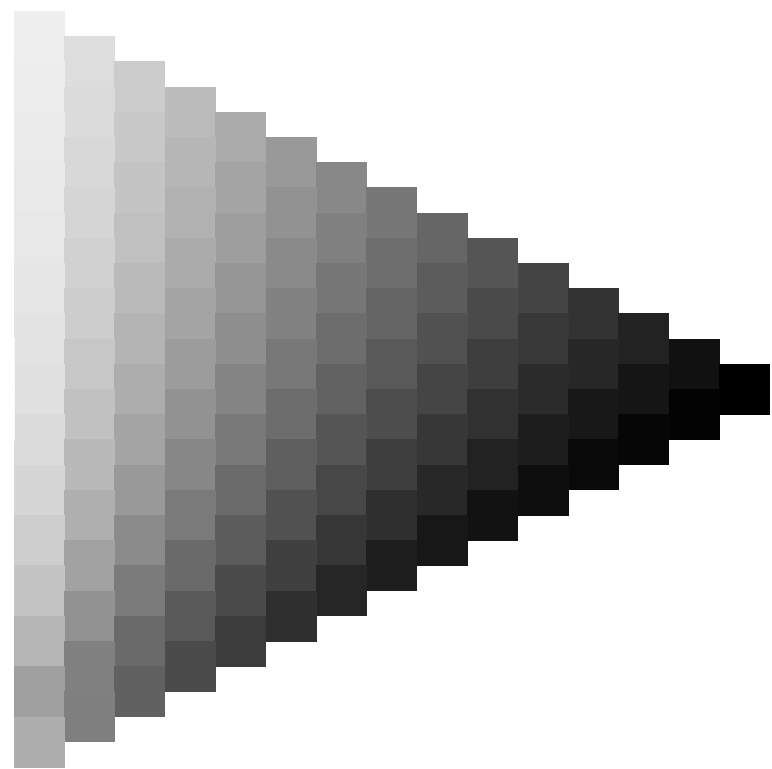
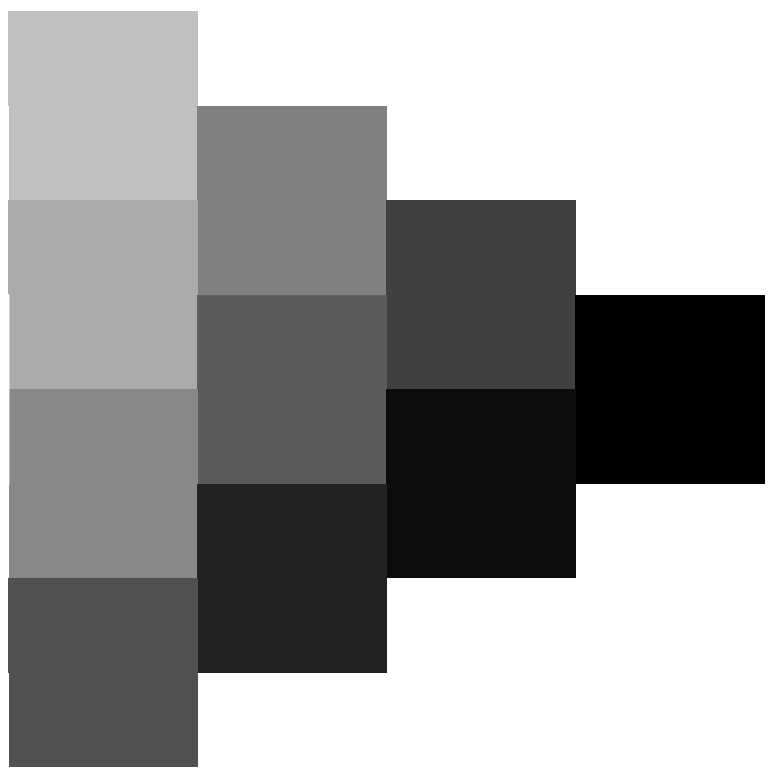
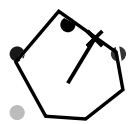
2-013330-L0 QS150-71

gráfico TUB-QS15; código de tono:  $H^*_e=R50Y_e$   
gráfico según a DIN 33872, 3D=0, de=1, cmyk

entrada:  $rgb/cmyk \rightarrow rgb_e$   
salida: transfiera a  $cmyk_e$



vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS15/QS15.HTM>  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

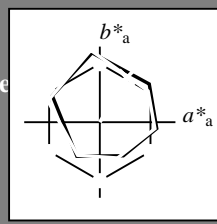


Entrada i salida: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 58/360 = 0.16$

$H^*_e = R50Y_e$

Datos del dispositivo (d) o elemental (e) color:

$HIC^*_e$   
código de tono para los colores  
esta página:  
 $H^*_e = R50Y_e$   
triángulo claridad  $T^*$



**ORS20a; datos adaptados CIELAB (a)**

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

Los datos de color máximo (Ma):

$LabCh^*_{e, Ma}$ : 60 35 59 68 58

$HIC^*_{e, Ma}$ : R50Y\_100\_100\_e

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

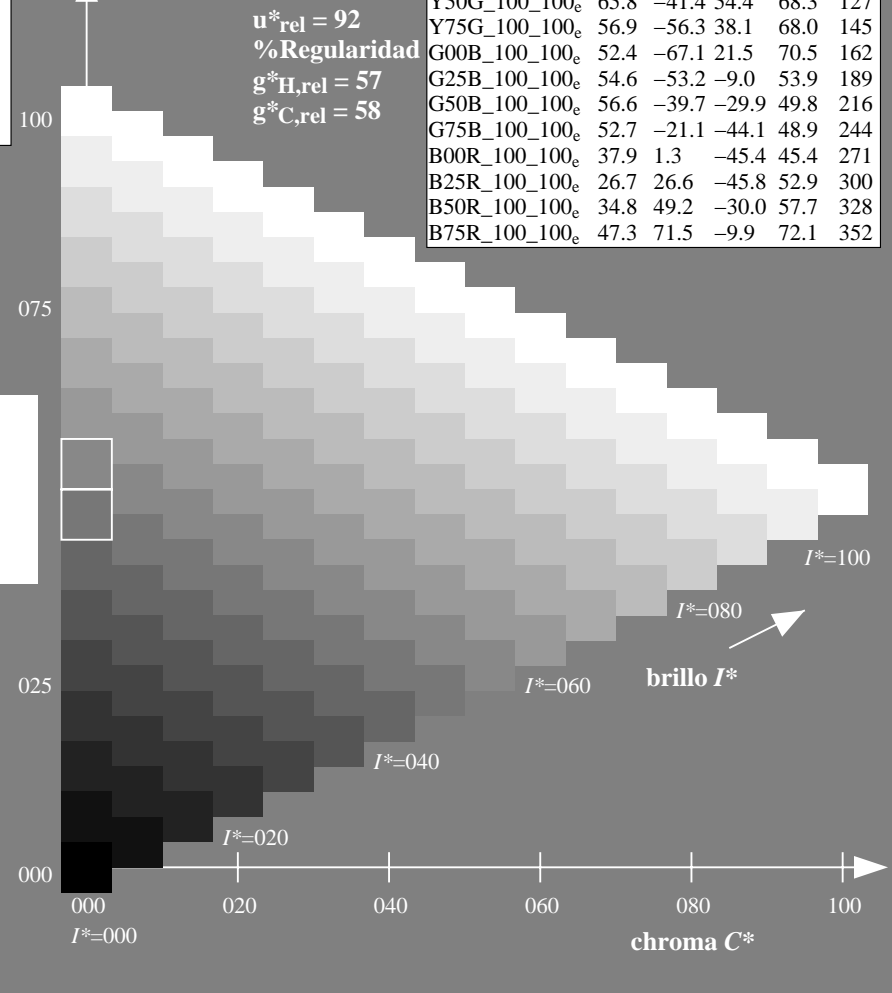
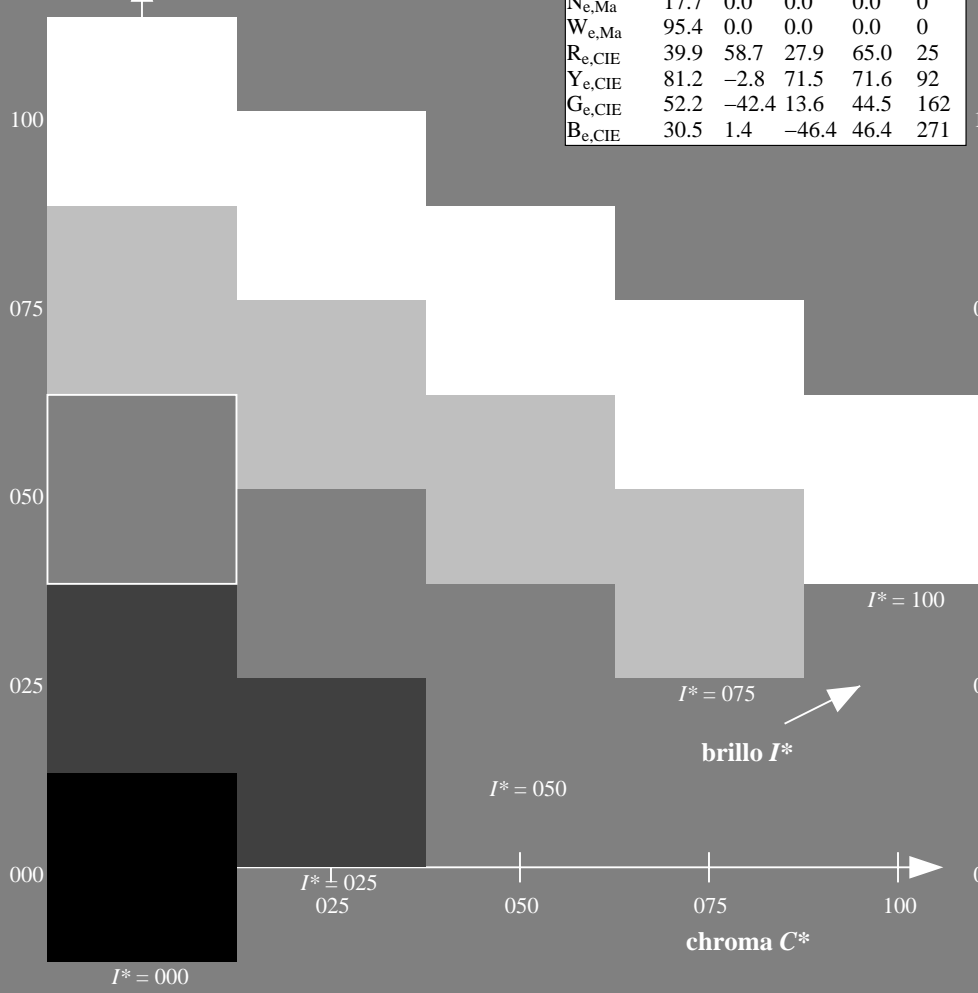
1.0 0.34 0.0 1.0 1.0

triángulo claridad  $T^*$

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

**ORS20a; datos adaptados CIELAB (a)**

$H^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
$R00Y_{100_100_e}$	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

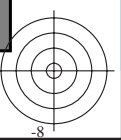
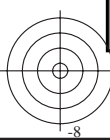


vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS15/QS15.HTM>  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

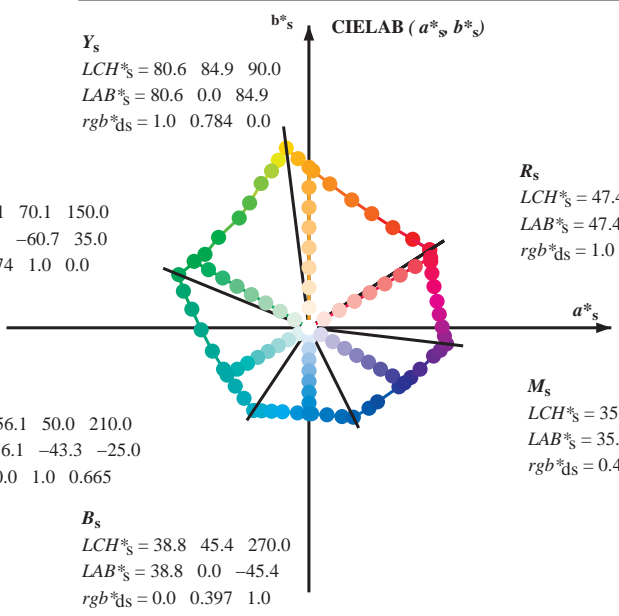
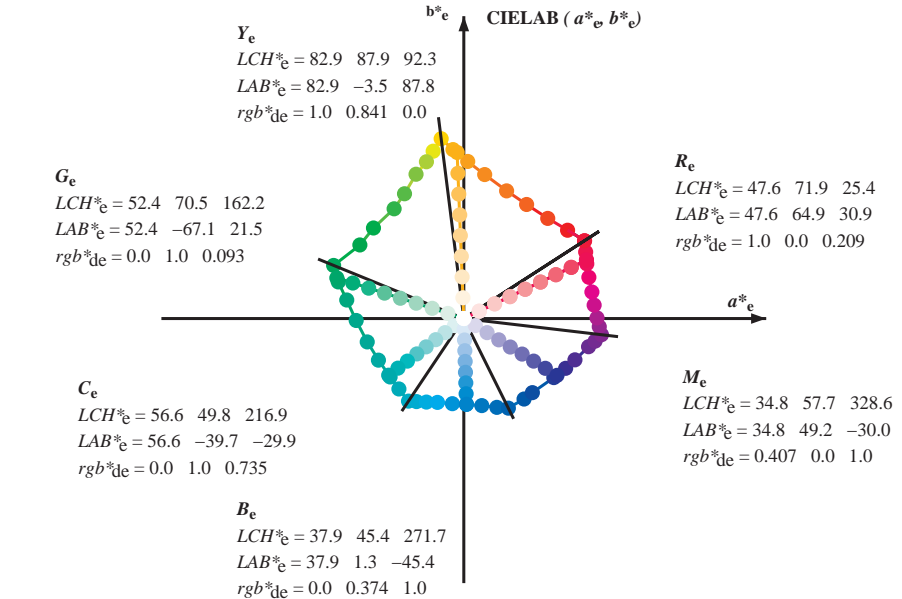
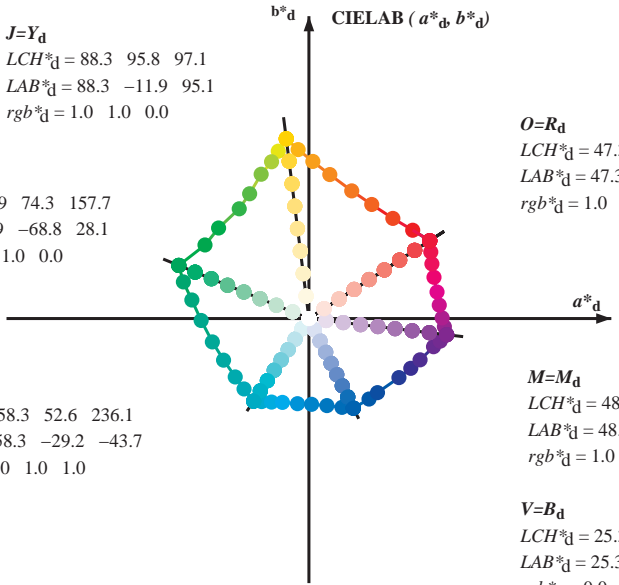
TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmy6 (CMYK)  
TUB material: code=rh4ta

gráfico TUB-QS15; código de tono:  $H^*_e=R50Y_e$   
gráfico según a DIN 33872, 3D=0, de=1, cmyk

entrada:  $rgb/cmyk \rightarrow rgb_e$   
salida: transfiera a  $cmyk_e$



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 RYGCMB<sub>s</sub>: h<sub>ab,ds</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours RYGCMB<sub>d</sub>: h<sub>ab,d</sub> = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGCMB<sub>e</sub>: h<sub>ab,e</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6



(a\*<sub>d</sub> b\*<sub>d</sub>), (a\*<sub>s</sub> b\*<sub>s</sub>), (a\*<sub>e</sub> b\*<sub>e</sub>)  
rgb\*<sub>e</sub> LCH\*<sub>e</sub> LAB\*<sub>e</sub>  
h<sub>ab,s</sub> rgb\*<sub>s</sub>  
h<sub>ab,s</sub> = atan [ r\*<sub>d</sub> cos(30) + g\*<sub>d</sub> cos(150) ] / [ r\*<sub>d</sub> sin(30) + g\*<sub>d</sub> sin(150) + b\*<sub>d</sub> sin(270) ] (1)

h<sub>ab,s</sub>  
s: h<sub>ab,i</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0 (i=0,6)

h<sub>48ab,sij</sub> = h<sub>ab,si</sub> + j [h<sub>ab,si+1</sub> - h<sub>ab,si</sub>] / 8 (i = 0, 1, ..., 5; j = 0, 1, ..., 7) (2)

h<sub>360ab,sij</sub> = h<sub>ab,si</sub> + j [h<sub>ab,si+1</sub> - h<sub>ab,si</sub>] / 60 (i = 0, 1, ..., 5; j = 0, 1, ..., 59) (3)

h<sub>ab,e</sub>  
e: h<sub>ab,i</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5 (i=0,6)

h<sub>48ab,eij</sub> = h<sub>ab,ei</sub> + j [h<sub>ab,ei+1</sub> - h<sub>ab,ei</sub>] / 8 (i = 0, 1, ..., 5; j = 0, 1, ..., 7) (4)

h<sub>360ab,eij</sub> = h<sub>ab,ei</sub> + j [h<sub>ab,ei+1</sub> - h<sub>ab,ei</sub>] / 60 (i = 0, 1, ..., 5; j = 0, 1, ..., 59) (5)

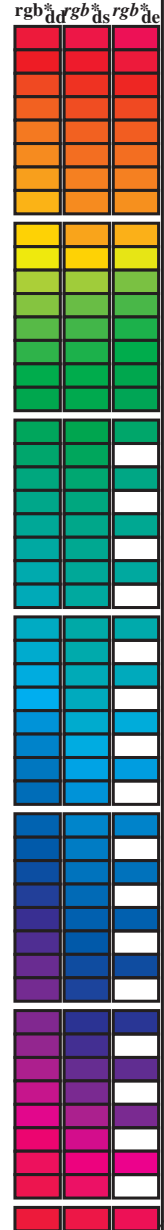
h<sub>ab,e</sub> h<sub>ab,d</sub>  
rgb\*<sub>de</sub>

vea archivos semejantes: http://130.149.60.45/~farbmetrik/QS15/QS15.HTM  
información técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrik

TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmyn6 (CMYK)  
TUB material: code=rh4ta

Data of maximum color M in colorimetric system offset standard print; separation cmy6\*; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM<sub>s</sub>; h<sub>ab,ds</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours RYGBCM<sub>d</sub>; h<sub>ab,d</sub> = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBCM<sub>e</sub>; h<sub>ab,e</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

Table with columns for device colors (h\_ab,d, h\_ab,s, h\_ab,e, r\_gb\*dd64M, LAB\*ddx64M(x=LabCh), r\_gb\*ddx361M, LAB\*ddx361M(x=LabCh), r\_gb\*dsx361M, LAB\*dsx361M(x=LabCh), r\_gb\*dex361M, LAB\*dex361M) and rows for 60 standard colors and 60 device colors.



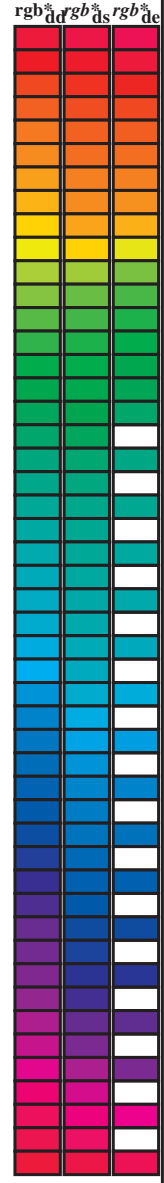
vea archivos semejantes: http://130.149.60.45/~farbmetrik/QS15/QS15.HTM información técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrik

TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS aplicación para la medida salida en la impresión offset, separación cmy6 (CMYK) TUB material: code=rh4tra



Data of Maximum color M in colorimetric system Offset standard print; separation cmy6\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM<sub>d</sub>: h<sub>ab,ds</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours RYGBM<sub>d</sub>: h<sub>ab,d</sub> = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBM<sub>e</sub>: h<sub>ab,e</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

h <sub>ab,d</sub>	h <sub>ab,s</sub>	h <sub>ab,e</sub>	rgb* dd64M	LAB* ddx64M (x=LabCh)	rgb* dex361M	LAB* dex361M
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	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	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	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	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	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	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	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	1.0 0.842 0.0	83.0 -3.4 87.8 87.9 92
100.3	97.5	101.0	0.875 1.0 0.0	85.8 -16.2 88.6 90.0 100.3	0.871 1.0 0.0	85.8 -16.2 88.4 89.9 100
103.3	105.0	109.7	0.75 1.0 0.0	82.9 -19.7 83.0 85.3 103.3	0.599 1.0 0.0	76.2 -26.6 74.3 78.9 109
108.3	112.5	118.5	0.625 1.0 0.0	77.0 -25.2 76.3 80.4 108.3	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	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	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	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	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	0.0 1.0 0.093	52.4 -67.0 21.5 70.5 162
163.7	157.5	169.0	0.0 1.0 0.125	52.5 -66.4 19.3 69.1 163.7	0.0 1.0 0.209	53.1 -63.5 12.8 64.9 168
170.9	165.0	175.9	0.0 1.0 0.25	53.2 -61.9 9.8 62.7 170.9	0.0 1.0 0.311	53.7 -59.7 4.3 59.9 175
181.0	172.5	182.7	0.0 1.0 0.375	54.1 -56.9 -1.0 56.9 181.0	0.0 1.0 0.387	54.2 -56.4 -2.2 56.5 182
193.5	180.0	189.6	0.0 1.0 0.5	54.8 -51.0 -12.3 52.5 193.5	0.0 1.0 0.46	54.6 -53.1 -8.9 54.0 189
205.9	187.5	196.4	0.0 1.0 0.625	55.8 -45.1 -21.9 50.1 205.9	0.0 1.0 0.524	55.0 -50.0 -14.3 52.1 195
218.4	195.0	203.2	0.0 1.0 0.75	56.7 -38.9 -30.9 49.7 218.4	0.0 1.0 0.598	55.6 -46.5 -19.9 50.7 203
227.3	202.5	210.1	0.0 1.0 0.875	57.5 -34.3 -37.2 50.6 227.3	0.0 1.0 0.662	56.1 -43.4 -24.7 50.1 209
236.1	210.0	216.9	0.0 1.0 1.0	58.3 -29.2 -43.7 52.6 236.1	0.0 1.0 0.736	56.7 -39.7 -29.9 49.8 216
240.3	217.5	223.8	0.0 0.875 1.0	55.2 -25.0 -43.9 50.5 240.3	0.0 1.0 0.819	57.2 -36.4 -34.4 50.3 223
245.8	225.0	230.6	0.0 0.75 1.0	51.7 -19.7 -44.1 48.3 245.8	0.0 1.0 0.922	57.9 -32.5 -39.7 51.4 230
252.5	232.5	237.5	0.0 0.625 1.0	47.7 -13.9 -44.4 46.5 252.5	0.0 0.974 1.0	57.7 -28.3 -43.7 52.2 237
262.3	240.0	244.3	0.0 0.5 1.0	42.7 -6.0 -45.0 45.4 262.3	0.0 0.785 1.0	52.7 -21.1 -44.1 49.0 244
271.7	247.5	251.2	0.0 0.375 1.0	37.9 1.3 -45.4 45.4 271.7	0.0 0.659 1.0	48.9 -15.4 -44.3 47.1 250
281.6	255.0	258.0	0.0 0.25 1.0	33.3 9.4 -46.0 47.0 281.6	0.0 0.555 1.0	45.0 -9.4 -44.8 45.9 258
290.3	262.5	264.8	0.0 0.125 1.0	28.6 17.4 -46.9 50.1 290.3	0.0 0.472 1.0	41.7 -4.3 -45.1 45.4 264
296.4	270.0	271.7	0.0 0.0 1.0	25.3 23.5 -47.3 52.8 296.4	0.0 0.375 1.0	37.9 1.4 -45.3 45.5 271
306.7	277.5	278.8	0.125 0.0 1.0	29.3 31.8 -42.6 53.1 306.7	0.0 0.291 1.0	34.9 6.8 -45.9 46.5 278
312.7	285.0	285.9	0.25 0.0 1.0	31.5 36.2 -39.2 53.4 312.7	0.0 0.188 1.0	31.0 13.3 -46.6 48.5 285
326.7	292.5	293.0	0.375 0.0 1.0	33.8 47.6 -31.2 56.9 326.7	0.0 0.079 1.0	27.4 19.6 -47.1 51.1 292
333.9	300.0	300.1	0.5 0.0 1.0	37.8 53.8 -26.3 59.9 333.9	0.046 0.0 1.0	26.8 26.6 -45.7 53.0 300
339.6	307.5	307.2	0.625 0.0 1.0	40.9 58.8 -21.8 62.7 339.6	0.0 0.126 1.0	29.4 31.9 -42.5 53.2 306
347.2	315.0	314.3	0.75 0.0 1.0	43.1 65.9 -14.9 67.6 347.2	0.265 0.0 1.0	31.8 37.7 -38.4 53.8 314
350.2	322.5	321.4	0.875 0.0 1.0	45.9 69.4 -11.9 70.5 350.2	0.324 0.0 1.0	32.9 43.2 -34.8 55.5 321
353.3	330.0	328.6	1.0 0.0 1.0	48.2 72.8 -8.5 73.3 353.3	0.407 0.0 1.0	34.9 49.3 -30.0 57.7 328
356.5	337.5	335.7	1.0 0.0 0.875	48.2 71.6 -4.3 71.7 356.5	0.529 0.0 1.0	38.6 55.0 -25.3 60.6 335
360.3	345.0	342.8	1.0 0.0 0.75	48.1 70.4 0.3 70.4 360.3	0.678 0.0 1.0	41.9 61.9 -19.0 64.8 342
365.8	352.5	349.9	1.0 0.0 0.625	48.0 68.9 7.1 69.3 365.8	0.842 0.0 1.0	45.2 68.6 -12.7 69.8 349
371.6	360.0	357.0	1.0 0.0 0.5	47.7 67.7 14.0 69.1 371.6	0.949 0.0 1.0	47.3 71.5 -9.9 72.2 352
378.2	367.5	364.1	1.0 0.0 0.375	47.7 66.1 21.8 69.6 378.2	1.0 0.0 0.765	48.2 70.6 -0.1 70.6 359
383.9	375.0	371.2	1.0 0.0 0.25	47.7 65.0 28.9 71.2 383.9	1.0 0.0 0.563	47.9 68.4 10.6 69.2 368
388.6	382.5	378.3	1.0 0.0 0.125	47.4 64.4 35.1 73.4 388.6	1.0 0.0 0.408	47.8 66.7 19.8 69.6 376
392.8	390.0	385.4	1.0 0.0 0.0	47.3 63.8 41.2 76.0 392.8	1.0 0.0 0.209	47.6 64.9 30.9 71.9 385



vea archivos semejantes: http://130.149.60.45/~farbmetrik/QS15/QS15.HTM  
información técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrik

TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmy6 (CMYK)  
TUB material: code=rh4tra



Data of Maximum color M in colorimetric system Offset standard print; separation cmy6\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM<sub>s</sub>: h<sub>ab,ds</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours RYGBCM<sub>d</sub>: h<sub>ab,d</sub> = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBCM<sub>e</sub>: h<sub>ab,e</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

Table with columns for colorimetric data: h<sub>ab,d</sub>, h<sub>ab,s</sub>, h<sub>ab,e</sub>, r<sub>gb</sub>\*\_dd361M, LAB\*\_ddx361Mi (x=LabCh), r<sub>gb</sub>\*\_ds361Mi, LAB\*\_dsx361Mi (x=LabCh), r<sub>gb</sub>\*\_dd361Mi, r<sub>gb</sub>\*\_de361Mi, LAB\*\_dex361Mi (x=LabCh), r<sub>gb</sub>\*\_dd361Mi. Rows 88-115.



vea archivos semejantes: http://130.149.60.45/~farbmetrik/QS15/QS15.HTM informacion técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrik

TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS TUB material: code=rh4tra aplicacion para la medida salida en la impresion offset, separacion cmy6 (CMYK)

Data of Maximum color M in colorimetric system Offset standard print; separation cmy6\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM<sub>d</sub>: h<sub>ab,ds</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Six hue angles of the device colours RYGBCM<sub>d</sub>: h<sub>ab,d</sub> = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBCM<sub>e</sub>: h<sub>ab,e</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

Table with 15 columns of colorimetric data including h<sub>ab,d</sub>, h<sub>ab,s</sub>, h<sub>ab,e</sub>, and various LabCh and ds361Mi values for 60 different color patches.

vea archivos semejantes: http://130.149.60.45/~farbmetrik/QS15/QS15.HTM  
información técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrik

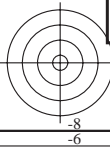
TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmy6 (CMYK)  
TUB material: code=rh4ta

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 RYGBCM<sub>s</sub>:  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours RYGBCM<sub>d</sub>:  $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$ ; Six hue angles of the elementary colours RYGBCM<sub>e</sub>:  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Table with 12 columns: LabCh, ds361Mi, LabCh, ds361Mi, rgb\*, ds361Mi, LabCh, ds361Mi, rgb\*, ds361Mi, LabCh, ds361Mi, rgb\*, ds361Mi. Rows contain data for various colorimetric parameters and hue angles.

vea archivos semejantes: http://130.149.60.45/~farbmetrik/QS15/QS15.HTM  
información técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrik

TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS  
TUB material: code=rh4ta  
aplicación para la medida salida en la impresión offset, separación cmyn6 (CMYK)



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 RYGCMB<sub>c</sub>; h<sub>ab,ds</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Six hue angles of the device colours RYGCMB<sub>d</sub>; h<sub>ab,d</sub> = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGCMB<sub>c</sub>; h<sub>ab,e</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

Table with multiple columns: h<sub>ab,d</sub>, h<sub>ab,s</sub>, h<sub>ab,e</sub>, r<sub>gb</sub>\*<sub>dd361M</sub>, LAB\*<sub>ddx361Mi (x=LabCh)</sub>, C<sub>d</sub>, r<sub>gb</sub>\*<sub>ds361Mi</sub>, LAB\*<sub>dsx361Mi (x=LabCh)</sub>, 210C<sub>s</sub>, r<sub>gb</sub>\*<sub>dd361Mi</sub>, LAB\*<sub>de361Mi</sub>, LAB\*<sub>dex361Mi (x=LabCh)</sub>, 216C<sub>c</sub>, r<sub>gb</sub>\*<sub>dd361Mi</sub>, r<sub>gb</sub>\*<sub>dd</sub>, r<sub>gb</sub>\*<sub>ds</sub>, r<sub>gb</sub>\*<sub>de</sub>

vea archivos semejantes: http://130.149.60.45/~farbmetrik/QS15/QS15.HTM  
información técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrik

TUB matrícula: 20130201-QS15/QS15L0NP.PDF /.PS  
TUB material: code=rh4t4  
aplicación para la medida salida en la impresión offset, separación cmyn6 (CMYK)

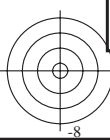












Table with columns: nif, HHC\*Fe, rpb\*Fe, icr\*Fe, hsa\*Fe, rpb\*Fe, LabCh\*Fe, LabCh\*Fe, rpb\*Fe, DF\*Fe, hsa\*Me, rpb\*Me, LabCh\*Me, rpb\*Me, DF\*Fe, hsa\*Me, rpb\*Me, LabCh\*Me. The table contains 48 rows of data for various color and density measurements.

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*

2-0131830-F0

QS150-TN; 19/33-F

delta E\* = 12,3

http://130.149.60.45/~farbmetrik/QS15/QS15LONP.PDF /.PS; salida de transferencia N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 20/33

Table with 80 rows and 15 columns: #F, H#C%Fe, r#p%Fe, i#t%Fe, h#s%Fe, r#g%Fe, LabC#\*Fe, r#g#\*Fe, LabC#\*Fe, D#F%Fe, h#m%Fe, r#g#\*Fe, LabC#\*Fe, D#F%Fe, h#m%Fe. Each row contains numerical data for color calibration.

delta E\* = 11.0

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*



http://130.149.60.45/~farbmetrik/QS15/QS15LONP.PDF /.PS; salida de transferencia N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 22/33

Table with 15 columns: n, HHC\*Fe, rpb\*Fe, icr\*Fe, hsa\*Fe, rpb\*Fe, LabCH\*Fe, LabCH\*Fe, rpb\*Fe, DF\*Fe, hAm\*Fe, LabCH\*Fe, rpb\*Fe, LabCH\*Fe, rpb\*Fe. Rows include color codes like ROOY, B50R, B34R, etc.

delta E\* = 11.3

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

2-0132130-F0

QS150-TN; 22/33-F

Color calibration table with 33 columns (n, H1C\*Fe, H2C\*Fe, iC\*Fe, H1M\*Fe, H2M\*Fe, LabC\*Fe, LabM\*Fe, H1a\*Fe, H2a\*Fe, H1b\*Fe, H2b\*Fe, H1c\*Fe, H2c\*Fe, H1d\*Fe, H2d\*Fe, H1e\*Fe, H2e\*Fe, H1f\*Fe, H2f\*Fe, H1g\*Fe, H2g\*Fe, H1h\*Fe, H2h\*Fe, H1i\*Fe, H2i\*Fe, H1j\*Fe, H2j\*Fe, H1k\*Fe, H2k\*Fe, H1l\*Fe, H2l\*Fe, H1m\*Fe, H2m\*Fe, H1n\*Fe, H2n\*Fe, H1o\*Fe, H2o\*Fe, H1p\*Fe, H2p\*Fe, H1q\*Fe, H2q\*Fe, H1r\*Fe, H2r\*Fe, H1s\*Fe, H2s\*Fe, H1t\*Fe, H2t\*Fe, H1u\*Fe, H2u\*Fe, H1v\*Fe, H2v\*Fe, H1w\*Fe, H2w\*Fe, H1x\*Fe, H2x\*Fe, H1y\*Fe, H2y\*Fe, H1z\*Fe, H2z\*Fe, delta E\*\* = 13.4)

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

http://130.149.60.45/~farbmetrik/QS15/QS15LONP.PDF /.PS; salida de transferencia N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 23/33

Table with columns: n, HHC\*Fc, rpb\*Fc, icr\*Fc, HsL\*Fc, rpb\*Fb, LabCH\*Fb, LabCH\*Fb, rpb\*Fb, rpb\*Fb, LabCH\*Fe, LabCH\*Fe, rpb\*Fe, rpb\*Fe, DF\*Fe, HsM\*Fe, LabCH\*Fe, rpb\*Fe, LabCH\*Fe, rpb\*Fe. Rows include color codes like R00Y, R05Y, B00M, etc.

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*

QS150-TN; 2433-F

2-013230-F0

delta E\* = 12.8

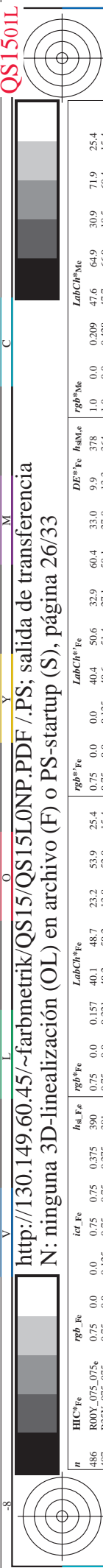


Table with 15 columns: n, HHC\*Fe, rpb\*Fe, iet\*Fe, Hs\*Fe, rpb\*Fe, LabCH\*Fe, LabCH\*Fe, rpb\*Fe, rpb\*Fe, LabCH\*Fe, DF\*Fe, Hs\*Fe, rpb\*Fe, LabCH\*Fe. Rows 405-485.

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*

2-0132430-F0 0132430-F0



http://130.149.60.45/~farbmetrik/QS15/QS15LONP.PDF /.PS; salida de transferencia N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 26/33

Table with 15 columns: n, HHC\*Fe, rpb\*Fe, icr\*Fe, hsa\*Fe, rpb\*Fe, LabCH\*Fe, LabCH\*Fe, rpb\*Fe, DF\*Fe, hAm\*Fe, LabCH\*Fe, rpb\*Fe, LabCH\*Fe, LabCH\*Fe. It contains a large grid of numerical data for various color and density measurements.

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*

http://130.149.60.45/~farbmetrik/QS15/QS15LONP.PDF /.PS; salida de transferencia N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 27/33

Table with 12 columns: n, H#C#Fe, H#S#Fe, i#L#Fe, i#R#Fe, LabC#\*Fe, LabM#\*Fe, LabY#\*Fe, LabCH#\*Fe, LabCM#\*Fe, LabCY#\*Fe, LabCH#\*Fe. Rows 567-647.

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*

vea archivos semejantes: http://130.149.60.45/~farbmetrik/QS15/QS15.HTM información técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrik

http://130.149.60.45/~farbmetrik/QS15/QS15LONP.PDF /.PS; salida de transferencia N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 28/33

Table with 10 columns: n, HHC\*Fe, rpb\*Fe, icr\*Fe, hsa\*Fe, LabCh\*Fe, rpb\*Fe, LabCh\*Fe, DF\*Fe, hAm\*Fe, rpb\*Fe, LabCh\*Fe. Rows 648-728.

delta E\*\* = 14.4

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

QS15011L

Table with 28 columns: n, H\*, C\*, M\*, Y\*, K\*, RGB, Lab, XYZ, CMYK, etc. for various color patches and black levels. Includes a 'delta E\*' column at the bottom right of the data area.

QS15011L

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*

2-0132830-F0

QS150-TN; 29/33-F

Table with columns: n, HHC\*, RgB\*, iGr\*, hsa, RgB\*, LabCM\*, iGr\*, hsa, RgB\*, LabCM\*, Df\*, HaM\*, RgB\*, LabCM\*, Delta E\*

vea archivos semejantes: http://130.149.60.45/~farbmetrik/QS15/QS15.HTM información técnica: http://www.ps.bam.de o http://130.149.60.45/~farbmetrik

entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, Delta E\*

Table with 16 columns: n, H#C\*Fe, rpb\*Fe, icr\*Fe, hsa\*Fe, rpb\*Fe, LabC\*H\*Fe, LabCH\*Fe, rpb\*Fe, LabCH\*Fe, DF\*Fe, rpb\*Fe, LabCH\*Fe, rpb\*Fe, LabCH\*Fe, delta E\* = I17. The table contains a large number of rows with numerical data for color calibration.

http://130.149.60.45/~farbmetrik/QS15/QS15LONP.PDF /.PS; salida de transferencia N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 31/33

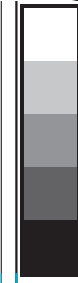
entrada: rgb/cmyk -> rgbe salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*e=R50Ye colores y diferencia en color, ΔE\*<sup>a</sup>

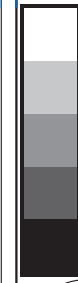
2-0133030-F0







http://130.149.60.45/~farbmetrik/QS15/QS15LONP.PDF /.PS; salida de transferencia  
N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 33/33



n	HC*Fe	rgb*Fe	ict*Fe	hsa*Fe	rgb*Fe	LabCH*Fe	hsa*Fe	LabCH*Fe	rgb*Fe	DF*Fe	hsa*Fe	rgb*Fe	LabCH*Fe	hsa*Me	rgb*Me	LabCH*Me	hsa*Me
1053	NW_086e	0.866	0.866	0.866	0.866	0.866	0.866	85.0	0.866	0.866	0.866	0.866	89.4	0.866	0.866	89.4	0.866
1054	NW_093e	0.933	0.933	0.933	0.933	0.933	0.933	90.2	0.933	0.933	0.933	0.933	92.2	0.933	0.933	92.2	0.933
1055	NW_100e	1.0	1.0	1.0	1.0	1.0	1.0	95.4	1.0	1.0	1.0	1.0	98.4	1.0	1.0	98.4	1.0
1056	NW_100e	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	18.7	0.0	0.0	18.7	0.0
1057	NW_100e	0.066	0.066	0.066	0.066	0.066	0.066	22.8	0.066	0.066	0.066	0.066	22.3	0.066	0.066	22.3	0.066
1058	NW_013e	0.133	0.133	0.133	0.133	0.133	0.133	33.2	0.133	0.133	0.133	0.133	30.4	0.133	0.133	30.4	0.133
1059	NW_020e	0.2	0.2	0.2	0.2	0.2	0.2	33.2	0.2	0.2	0.2	0.2	30.4	0.2	0.2	30.4	0.2
1060	NW_026e	0.266	0.266	0.266	0.266	0.266	0.266	38.3	0.266	0.266	0.266	0.266	35.6	0.266	0.266	35.6	0.266
1061	NW_033e	0.333	0.333	0.333	0.333	0.333	0.333	43.6	0.333	0.333	0.333	0.333	40.9	0.333	0.333	40.9	0.333
1062	NW_040e	0.4	0.4	0.4	0.4	0.4	0.4	48.8	0.4	0.4	0.4	0.4	45.9	0.4	0.4	45.9	0.4
1063	NW_046e	0.466	0.466	0.466	0.466	0.466	0.466	53.9	0.466	0.466	0.466	0.466	51.1	0.466	0.466	51.1	0.466
1064	NW_053e	0.533	0.533	0.533	0.533	0.533	0.533	59.1	0.533	0.533	0.533	0.533	56.3	0.533	0.533	56.3	0.533
1065	NW_060e	0.6	0.6	0.6	0.6	0.6	0.6	64.3	0.6	0.6	0.6	0.6	61.5	0.6	0.6	61.5	0.6
1066	NW_066e	0.666	0.666	0.666	0.666	0.666	0.666	69.5	0.666	0.666	0.666	0.666	66.7	0.666	0.666	66.7	0.666
1067	NW_073e	0.734	0.734	0.734	0.734	0.734	0.734	74.7	0.734	0.734	0.734	0.734	71.9	0.734	0.734	71.9	0.734
1068	NW_080e	0.8	0.8	0.8	0.8	0.8	0.8	79.9	0.8	0.8	0.8	0.8	77.1	0.8	0.8	77.1	0.8
1069	NW_086e	0.866	0.866	0.866	0.866	0.866	0.866	85.0	0.866	0.866	0.866	0.866	82.2	0.866	0.866	82.2	0.866
1070	NW_093e	0.933	0.933	0.933	0.933	0.933	0.933	90.2	0.933	0.933	0.933	0.933	87.4	0.933	0.933	87.4	0.933
1071	NW_100e	1.0	1.0	1.0	1.0	1.0	1.0	95.4	1.0	1.0	1.0	1.0	92.6	1.0	1.0	92.6	1.0
1072	NW_100e	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	18.7	0.0	0.0	18.7	0.0
1073	NW_100e	0.066	0.066	0.066	0.066	0.066	0.066	22.8	0.066	0.066	0.066	0.066	22.3	0.066	0.066	22.3	0.066
1074	ROY_100_100e	1.0	1.0	1.0	1.0	1.0	1.0	95.4	1.0	1.0	1.0	1.0	92.6	1.0	1.0	92.6	1.0
1075	GS0B_100_100e	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0	18.7	0.0	0.0	18.7	0.0
1076	Y06C_100_100e	0.0	0.0	0.0	0.0	0.0	0.0	56.6	0.0	0.0	0.0	0.0	56.6	0.0	0.0	56.6	0.0
1077	B06M_100_100e	0.0	0.0	0.0	0.0	0.0	0.0	82.9	0.0	0.0	0.0	0.0	82.9	0.0	0.0	82.9	0.0
1078	B08L_100_100e	0.0	0.0	0.0	0.0	0.0	0.0	84.4	0.0	0.0	0.0	0.0	84.4	0.0	0.0	84.4	0.0
1079	B50R_100_100e	0.0	0.0	0.0	0.0	0.0	0.0	92.2	0.0	0.0	0.0	0.0	92.2	0.0	0.0	92.2	0.0

delta E\* = 7.6



entrada: rgb/cmyk -> rgbe  
salida: transfiera a cmyke

gráfico TUB-QS15; código de tono: H\*\_e=R50Y\_e  
colores y diferencia en color, ΔE\*<sub>v</sub>

QS150-TN; 33/33-F

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