

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

$H^*_{-} = R50Y_{-}$

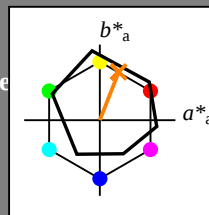
Datos del dispositivo (d) o elemental (e) color:

HIC^*_{-}

código de tono para les colore
esta página:

$H^*_{-} = R50Y_{-}$

triângulo 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

triângulo claridad T^*

% Gama

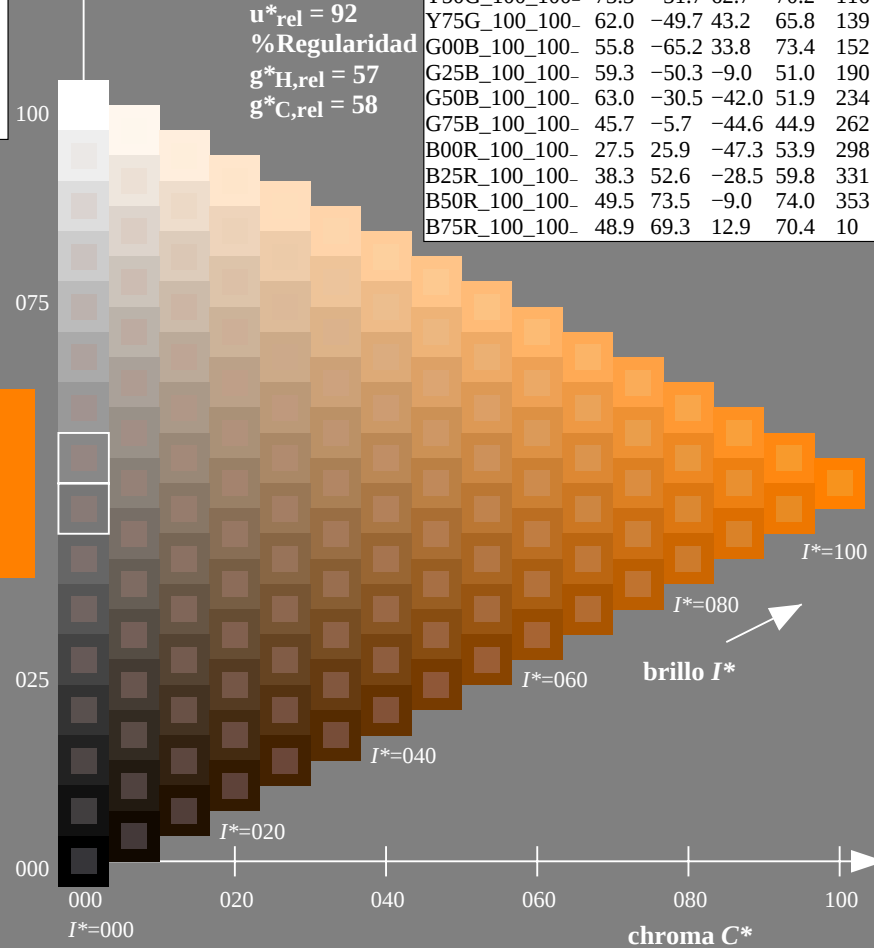
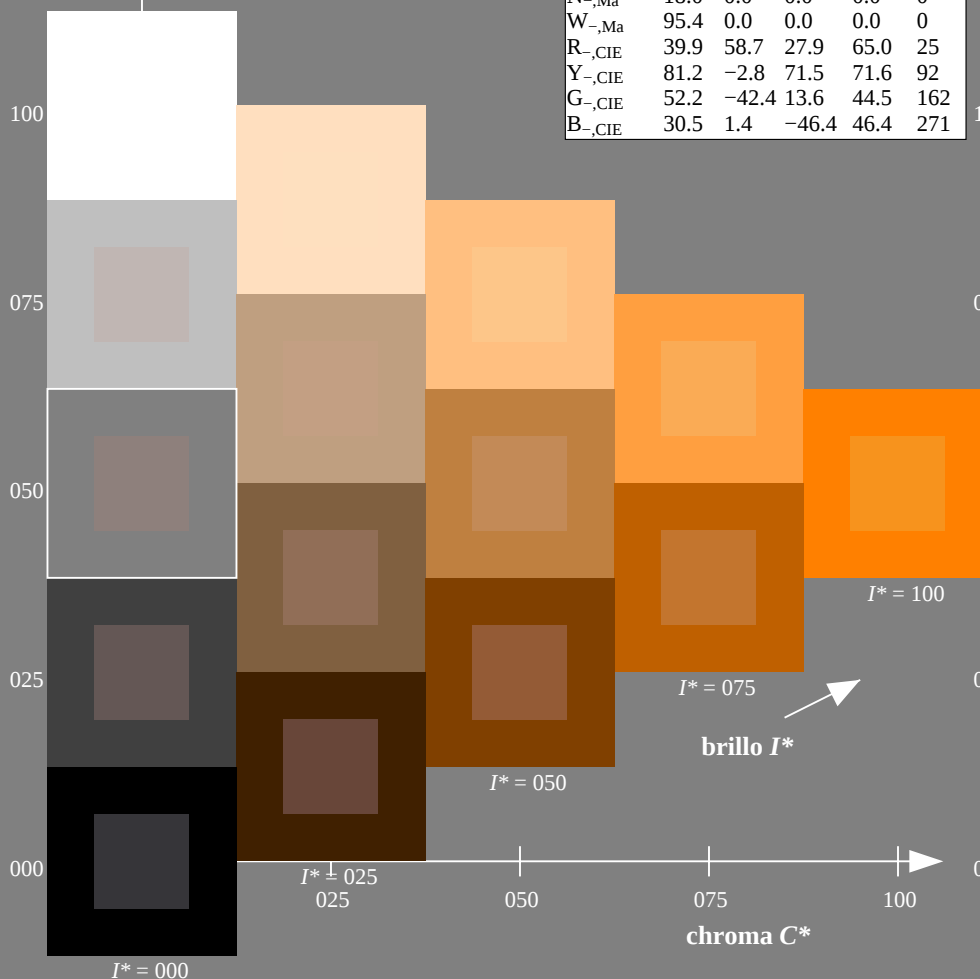
$u^*_{rel} = 92$

% 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



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

$H^*_e = R50Y_e$

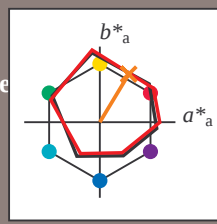
Datos del dispositivo (d) o elemental (e) color:

HIC^*_e

código de tono para les colore esta página:

$H^*_e = R50Y_e$

triángulo claridad T^*



ORS20a; datos adaptados CIELAB (a)

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{e,Ma}$	45.6	72.2	34.4	80.0	25
$Y_{e,Ma}$	83.6	-3.6	90.4	90.4	92
$G_{e,Ma}$	50.6	-62.1	19.9	65.2	162
$C_{e,Ma}$	55.0	-36.2	-27.2	45.3	216
$B_{e,Ma}$	40.2	1.2	-40.6	40.6	271
$M_{e,Ma}$	31.1	47.7	-29.1	55.9	328
$N_{e,Ma}$	24.3	0.0	0.0	0.0	0
$W_{e,Ma}$	95.6	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 38 63 74 58

$HIC^*_{e,Ma}$: R50Y_100_100_e

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

1.0 0.39 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	45.6	72.2	34.4	80.0	25
R25Y_100_100 _e	50.5	59.2	51.6	78.6	41
R50Y_100_100 _e	60.2	38.2	63.4	74.1	58
R75Y_100_100 _e	70.9	17.9	75.9	77.9	76
Y00G_100_100 _e	83.6	-3.6	90.4	90.4	92
Y25G_100_100 _e	74.5	-25.0	74.3	78.4	108
Y50G_100_100 _e	62.6	-40.9	53.8	67.6	127
Y75G_100_100 _e	54.1	-55.5	37.5	67.0	145
G00B_100_100 _e	50.6	-62.1	19.9	65.2	162
G25B_100_100 _e	53.0	-48.6	-8.2	49.2	189
G50B_100_100 _e	55.0	-36.2	-27.2	45.3	216
G75B_100_100 _e	53.3	-19.8	-41.3	45.9	244
B00R_100_100 _e	40.2	1.2	-40.6	40.6	271
B25R_100_100 _e	28.1	23.4	-40.3	46.7	300
B50R_100_100 _e	31.1	47.7	-29.1	55.9	328
B75R_100_100 _e	41.4	70.4	-9.8	71.1	352

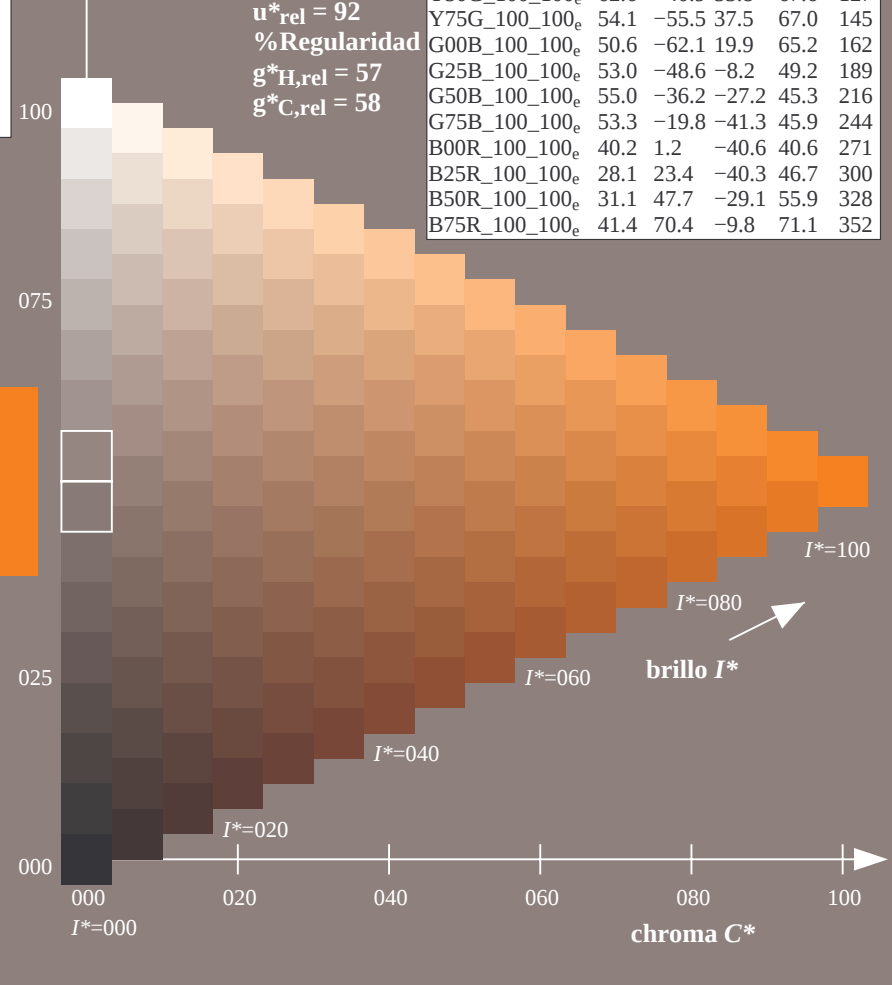
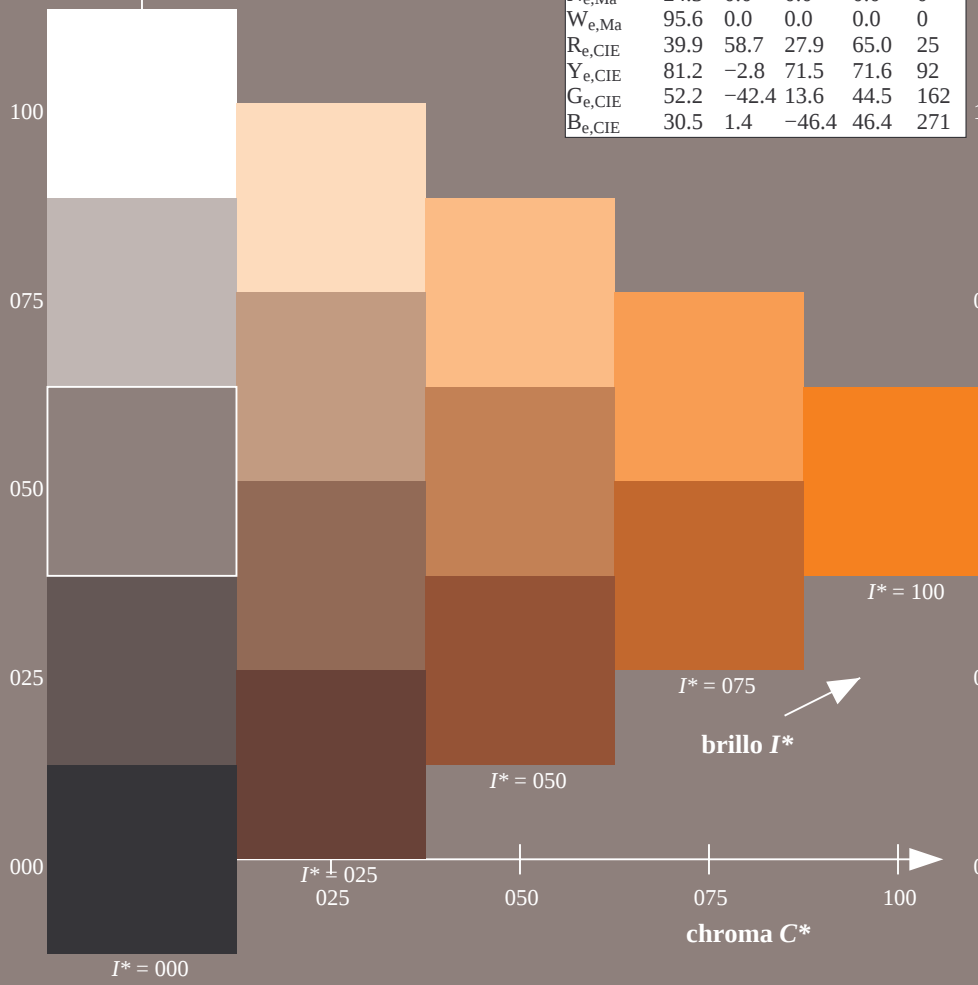


gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
gráfico según a DIN 33872, 3D=0, de=1, $cmY0$

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmY0_e$

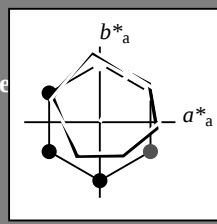
TUB matrícula: 20130201-QS18/QS18L0NP.PDF /.PS
aplicación para la medida salida en la impresión offset, separación $cmY0$ (CMY0)
TUB material: code=rha4ta

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 les colore
esta página:
 $H^*_e = R50Y_e$
triàngulo claridad T^*



ORS20a; datos adaptados CIELAB (a)

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_e, Ma	45.6	72.2	34.4	80.0	25
Y_e, Ma	83.6	-3.6	90.4	90.4	92
G_e, Ma	50.6	-62.1	19.9	65.2	162
C_e, Ma	55.0	-36.2	-27.2	45.3	216
B_e, Ma	40.2	1.2	-40.6	40.6	271
M_e, Ma	31.1	47.7	-29.1	55.9	328
N_e, Ma	24.3	0.0	0.0	0.0	0
W_e, Ma	95.6	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 38 63 74 58

HIC^*_e, Ma : R50Y_100_100_e

$rgbic^*_e, Ma$:

1.0 0.39 0.0 1.0 1.0

triàngulo 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	45.6	72.2	34.4	80.0	25
R25Y_100_100_e	50.5	59.2	51.6	78.6	41
R50Y_100_100_e	60.2	38.2	63.4	74.1	58
R75Y_100_100_e	70.9	17.9	75.9	77.9	76
Y00G_100_100_e	83.6	-3.6	90.4	90.4	92
Y25G_100_100_e	74.5	-25.0	74.3	78.4	108
Y50G_100_100_e	62.6	-40.9	53.8	67.6	127
Y75G_100_100_e	54.1	-55.5	37.5	67.0	145
G00B_100_100_e	50.6	-62.1	19.9	65.2	162
G25B_100_100_e	53.0	-48.6	-8.2	49.2	189
G50B_100_100_e	55.0	-36.2	-27.2	45.3	216
G75B_100_100_e	53.3	-19.8	-41.3	45.9	244
B00R_100_100_e	40.2	1.2	-40.6	40.6	271
B25R_100_100_e	28.1	23.4	-40.3	46.7	300
B50R_100_100_e	31.1	47.7	-29.1	55.9	328
B75R_100_100_e	41.4	70.4	-9.8	71.1	352

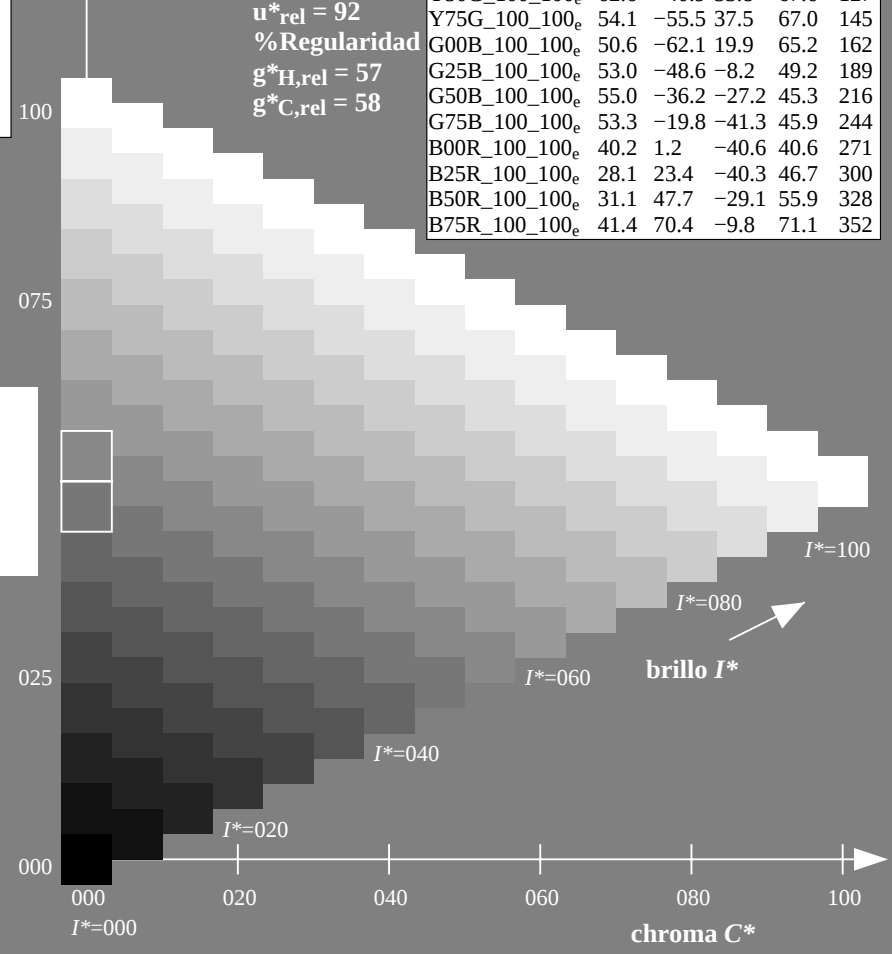
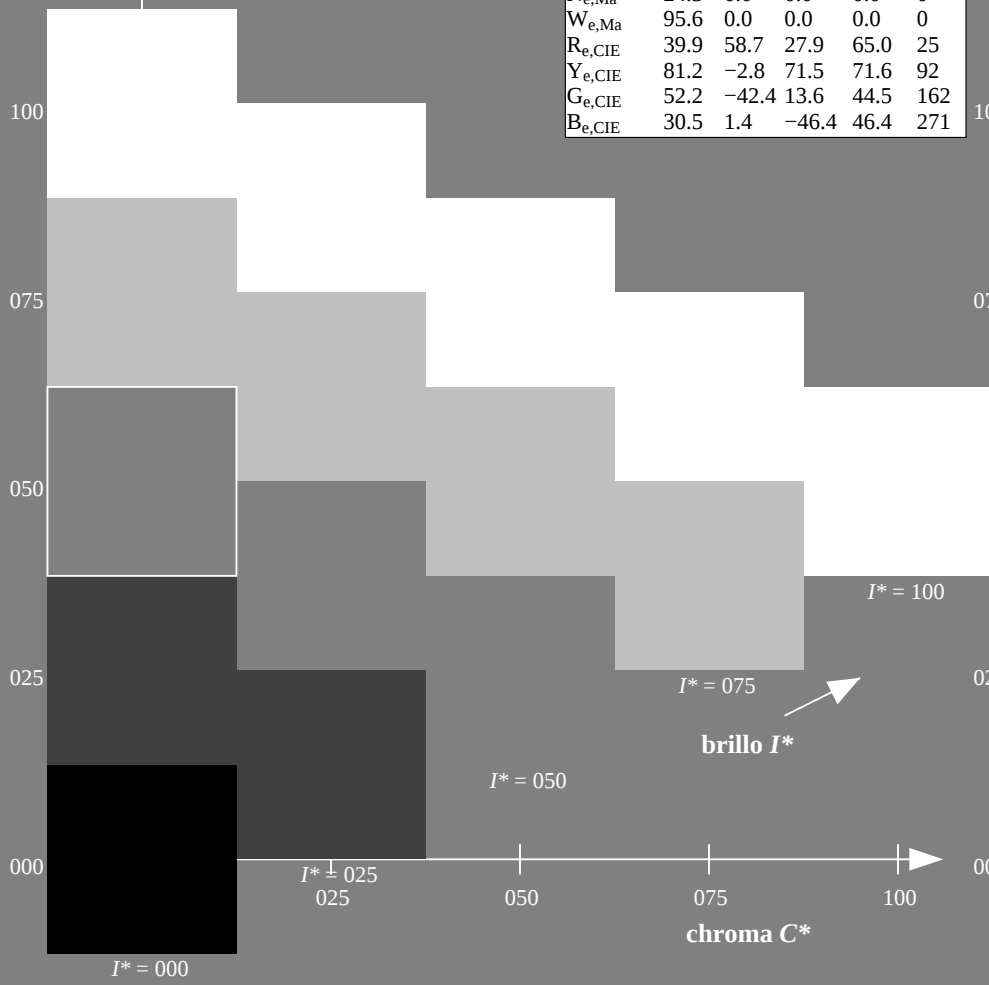


gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
gráfico según a DIN 33872, 3D=0, de=1, $cmY0$

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmY0_e$

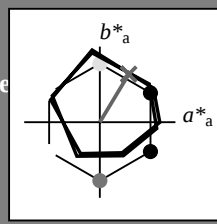
TUB matrícula: 20130201-QS18/QS18L0NP.PDF /.PS
aplicación para la medida salida en la impresión offset, separación $cmY0$ (CMY0)
TUB material: code=rha4ta

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 les colore
esta página:
 $H^*_e = R50Y_e$
triàngulo claridad T^*



ORS20a; datos adaptados CIELAB (a)

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_e, Ma	45.6	72.2	34.4	80.0	25
Y_e, Ma	83.6	-3.6	90.4	90.4	92
G_e, Ma	50.6	-62.1	19.9	65.2	162
C_e, Ma	55.0	-36.2	-27.2	45.3	216
B_e, Ma	40.2	1.2	-40.6	40.6	271
M_e, Ma	31.1	47.7	-29.1	55.9	328
N_e, Ma	24.3	0.0	0.0	0.0	0
W_e, Ma	95.6	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 38 63 74 58

$HIC^*_{e, Ma}$: R50Y_100_100_e

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

1.0 0.39 0.0 1.0 1.0

triàngulo 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	$C^*_{ab,a}$	$h^*_{ab,a}$
$R00Y_100_100_e$	45.6	72.2	34.4	80.0	25
$R25Y_100_100_e$	50.5	59.2	51.6	78.6	41
$R50Y_100_100_e$	60.2	38.2	63.4	74.1	58
$R75Y_100_100_e$	70.9	17.9	75.9	77.9	76
$Y00G_100_100_e$	83.6	-3.6	90.4	90.4	92
$Y25G_100_100_e$	74.5	-25.0	74.3	78.4	108
$Y50G_100_100_e$	62.6	-40.9	53.8	67.6	127
$Y75G_100_100_e$	54.1	-55.5	37.5	67.0	145
$G00B_100_100_e$	50.6	-62.1	19.9	65.2	162
$G25B_100_100_e$	53.0	-48.6	-8.2	49.2	189
$G50B_100_100_e$	55.0	-36.2	-27.2	45.3	216
$G75B_100_100_e$	53.3	-19.8	-41.3	45.9	244
$B00R_100_100_e$	40.2	1.2	-40.6	40.6	271
$B25R_100_100_e$	28.1	23.4	-40.3	46.7	300
$B50R_100_100_e$	31.1	47.7	-29.1	55.9	328
$B75R_100_100_e$	41.4	70.4	-9.8	71.1	352

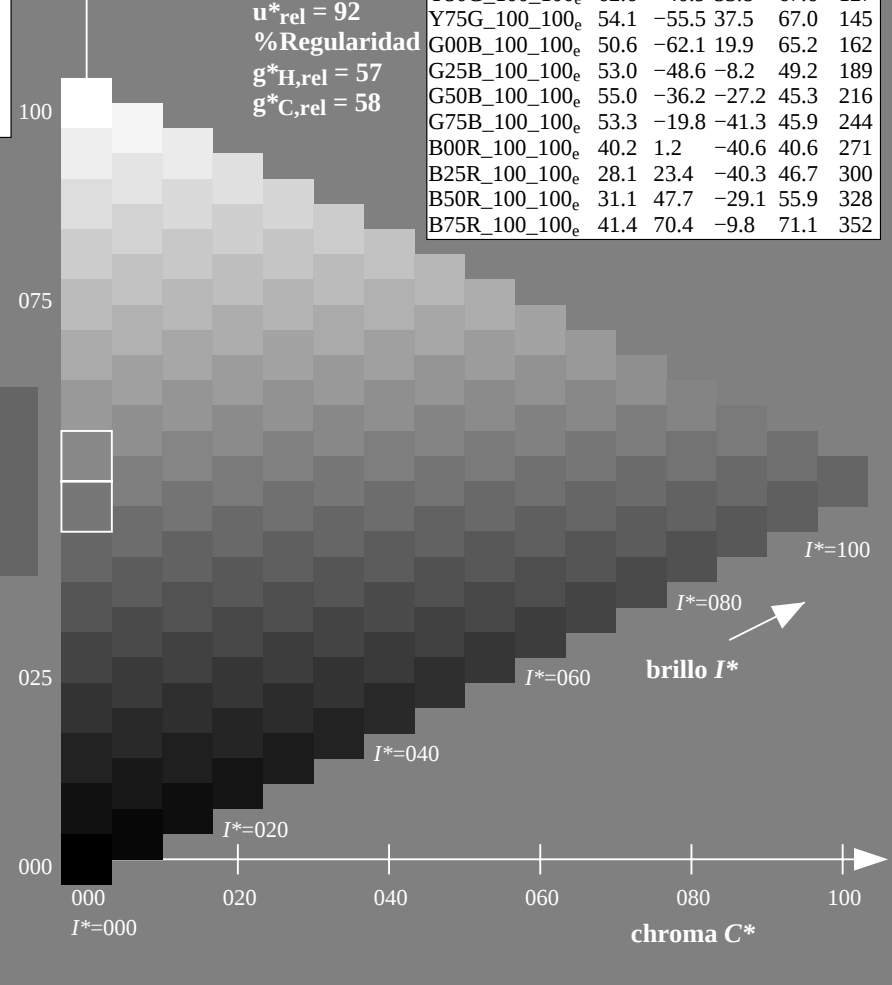
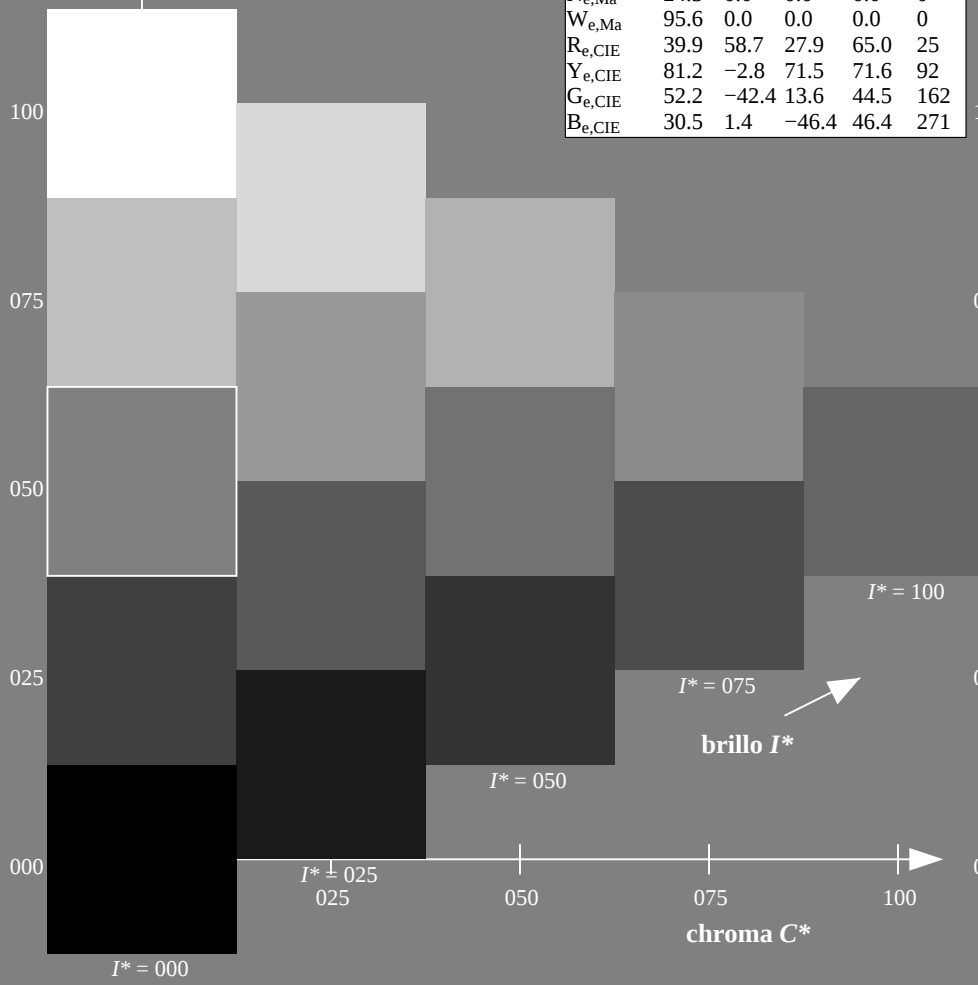


gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
gráfico según a DIN 33872, 3D=0, de=1, $cmY0$

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmY0_e$

TUB matrícula: 20130201-QS18/QS18L0NP.PDF /.PS
aplicación para la medida salida en la impresión offset, separación $cmY0$ (CMY0)
TUB material: code=rha4ta

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

$H^*_e = R50Y_e$

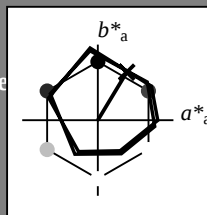
Datos del dispositivo (d) o elemental (e) color:

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	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{e,Ma}$	45.6	72.2	34.4	80.0	25
$Y_{e,Ma}$	83.6	-3.6	90.4	90.4	92
$G_{e,Ma}$	50.6	-62.1	19.9	65.2	162
$C_{e,Ma}$	55.0	-36.2	-27.2	45.3	216
$B_{e,Ma}$	40.2	1.2	-40.6	40.6	271
$M_{e,Ma}$	31.1	47.7	-29.1	55.9	328
$N_{e,Ma}$	24.3	0.0	0.0	0.0	0
$W_{e,Ma}$	95.6	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 38 63 74 58

$HIC^*_{e,Ma}$: R50Y_100_100_e

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

1.0 0.39 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	45.6	72.2	34.4	80.0	25
R25Y_100_100 _e	50.5	59.2	51.6	78.6	41
R50Y_100_100 _e	60.2	38.2	63.4	74.1	58
R75Y_100_100 _e	70.9	17.9	75.9	77.9	76
Y00G_100_100 _e	83.6	-3.6	90.4	90.4	92
Y25G_100_100 _e	74.5	-25.0	74.3	78.4	108
Y50G_100_100 _e	62.6	-40.9	53.8	67.6	127
Y75G_100_100 _e	54.1	-55.5	37.5	67.0	145
G00B_100_100 _e	50.6	-62.1	19.9	65.2	162
G25B_100_100 _e	53.0	-48.6	-8.2	49.2	189
G50B_100_100 _e	55.0	-36.2	-27.2	45.3	216
G75B_100_100 _e	53.3	-19.8	-41.3	45.9	244
B00R_100_100 _e	40.2	1.2	-40.6	40.6	271
B25R_100_100 _e	28.1	23.4	-40.3	46.7	300
B50R_100_100 _e	31.1	47.7	-29.1	55.9	328
B75R_100_100 _e	41.4	70.4	-9.8	71.1	352

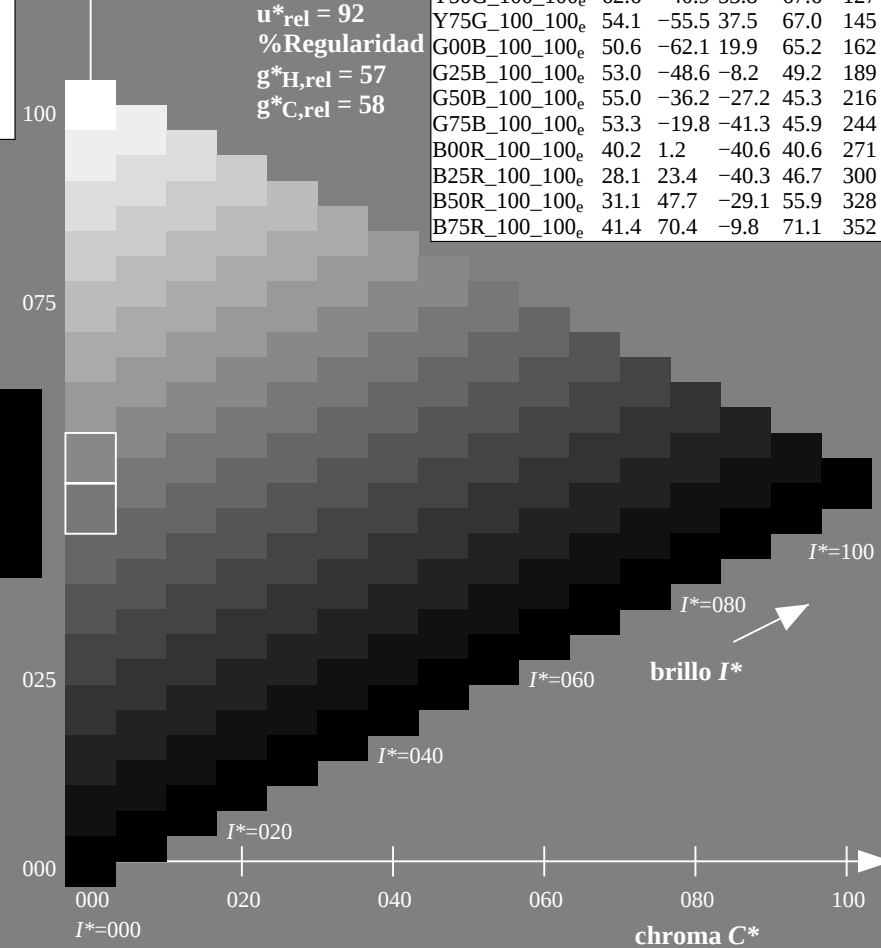
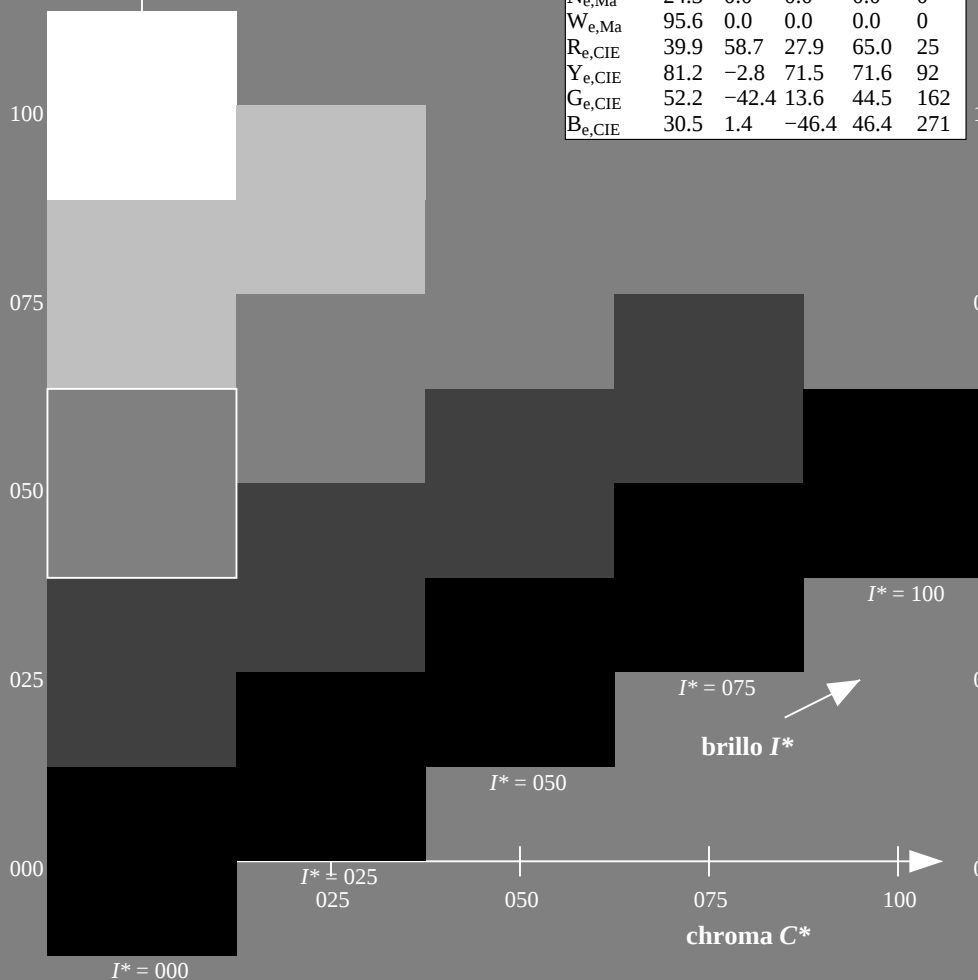
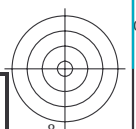


gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
gráfico según a DIN 33872, 3D=0, de=1, $cmY0$

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmY0_e$



entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmy0_e$

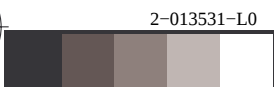
gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
gráfico según a DIN 33872, 3D=0, de=1, $cmy0$

http://130.149.60.45/~farbmetrik/QS18/QS18L0NP.PDF /.PS; salida de transferencia
N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 6/33

QS180-71

2-013531-L0

2-013531-E0



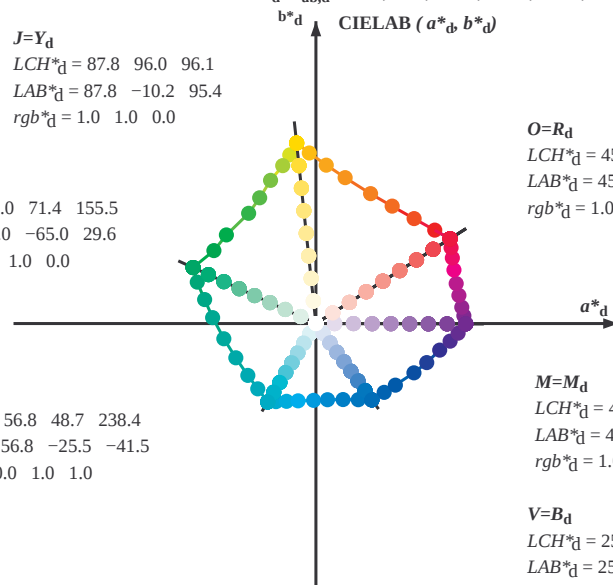
vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS18/QS18.HTM>
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$
 $LCH^*_d = 87.8 \ 96.0 \ 96.1$
 $LAB^*_d = 87.8 \ -10.2 \ 95.4$
 $rgb^*_d = 1.0 \ 1.0 \ 0.0$

$L=G_d$
 $LCH^*_d = 50.0 \ 71.4 \ 155.5$
 $LAB^*_d = 50.0 \ -65.0 \ 29.6$
 $rgb^*_d = 0.0 \ 1.0 \ 0.0$

$C=C_d$
 $LCH^*_d = 56.8 \ 48.7 \ 238.4$
 $LAB^*_d = 56.8 \ -25.5 \ -41.5$
 $rgb^*_d = 0.0 \ 1.0 \ 1.0$



$O=R_d$
 $LCH^*_d = 45.4 \ 83.9 \ 32.3$
 $LAB^*_d = 45.4 \ 70.9 \ 44.8$
 $rgb^*_d = 1.0 \ 0.0 \ 0.0$

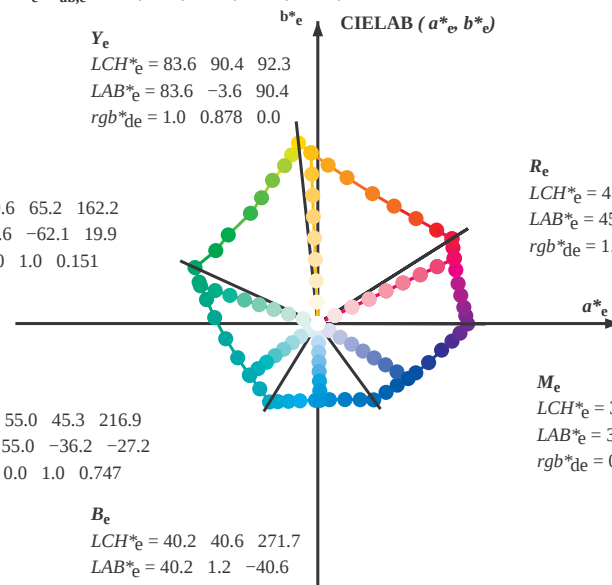
$M=M_d$
 $LCH^*_d = 46.1 \ 79.3 \ 359.8$
 $LAB^*_d = 46.1 \ 79.3 \ -0.2$
 $rgb^*_d = 1.0 \ 0.0 \ 1.0$

$V=B_d$
 $LCH^*_d = 25.0 \ 50.0 \ 306.2$
 $LAB^*_d = 25.0 \ 29.5 \ -40.4$
 $rgb^*_d = 0.0 \ 0.0 \ 1.0$

Y_e
 $LCH^*_e = 83.6 \ 90.4 \ 92.3$
 $LAB^*_e = 83.6 \ -3.6 \ 90.4$
 $rgb^*_{de} = 1.0 \ 0.878 \ 0.0$

G_e
 $LCH^*_e = 50.6 \ 65.2 \ 162.2$
 $LAB^*_e = 50.6 \ -62.1 \ 19.9$
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.151$

C_e
 $LCH^*_e = 55.0 \ 45.3 \ 216.9$
 $LAB^*_e = 55.0 \ -36.2 \ -27.2$
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.747$



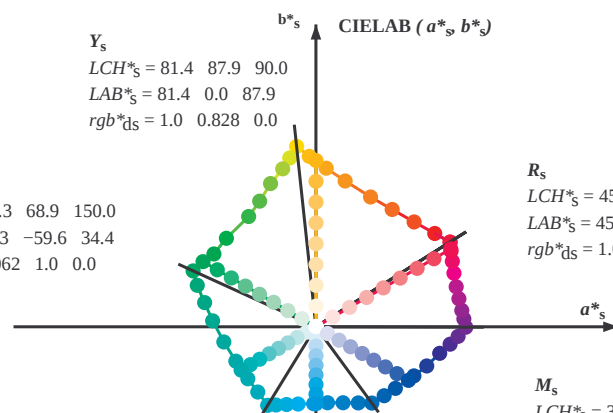
R_e
 $LCH^*_e = 45.6 \ 80.0 \ 25.4$
 $LAB^*_e = 45.6 \ 72.2 \ 34.4$
 $rgb^*_{de} = 1.0 \ 0.0 \ 0.254$

M_e
 $LCH^*_e = 31.1 \ 55.9 \ 328.6$
 $LAB^*_e = 31.1 \ 47.7 \ -29.1$
 $rgb^*_{de} = 0.321 \ 0.0 \ 1.0$

B_e
 $LCH^*_e = 40.2 \ 40.6 \ 271.7$
 $LAB^*_e = 40.2 \ 1.2 \ -40.6$
 $rgb^*_{de} = 0.0 \ 0.458 \ 1.0$

Y_s
 $LCH^*_s = 81.4 \ 87.9 \ 90.0$
 $LAB^*_s = 81.4 \ 0.0 \ 87.9$
 $rgb^*_{ds} = 1.0 \ 0.828 \ 0.0$

G_s
 $LCH^*_s = 52.3 \ 68.9 \ 150.0$
 $LAB^*_s = 52.3 \ -59.6 \ 34.4$
 $rgb^*_{ds} = 0.062 \ 1.0 \ 0.0$



R_s
 $LCH^*_s = 45.5 \ 82.4 \ 30.0$
 $LAB^*_s = 45.5 \ 71.3 \ 41.2$
 $rgb^*_{ds} = 1.0 \ 0.0 \ 0.096$

M_s
 $LCH^*_s = 31.6 \ 56.5 \ 330.0$
 $LAB^*_s = 31.6 \ 49.0 \ -28.2$
 $rgb^*_{ds} = 0.337 \ 0.0 \ 1.0$

C_s
 $LCH^*_s = 54.5 \ 45.7 \ 210.0$
 $LAB^*_s = 54.5 \ -39.6 \ -22.8$
 $rgb^*_{ds} = 0.0 \ 1.0 \ 0.685$

B_s
 $LCH^*_s = 40.9 \ 40.6 \ 270.0$
 $LAB^*_s = 40.9 \ 0.0 \ -40.6$
 $rgb^*_{ds} = 0.0 \ 0.479 \ 1.0$

$(a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)$

$rgb^*_d LCH^*_d LAB^*_d$

$h_{ab,s} rgb^*_d$

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

$h_{ab,s}$

$s: h_{ab,i} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0 (i=0,6)$

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

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

$h_{ab,e}$

$e: h_{ab,i} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5 (i=0,6)$

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

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

$h_{ab,d}$

rgb^*_{de}

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}					LAB^*_{ddx64M} (x=LabCh)					$rgb^*_{ddx361M}$					$LAB^*_{ddx361M}$ (x=LabCh)					$rgb^*_{dsx361M}$					$LAB^*_{dsx361M}$ (x=LabCh)					$rgb^*_{dex361M}$					$LAB^*_{dex361M}$				
32.3	30.0	25.4	1.0	0.0	0.0	45.4	70.9	44.8	83.9	32.3	1.0	0.0	0.0	45.5	70.9	44.9	83.9	32	1.0	0.0	0.096	45.5	71.4	41.2	82.4	30	1.0	0.0	0.255	45.7	72.2	34.4	80.0	25								
38.1	37.5	33.8	1.0	0.125	0.0	48.9	62.8	49.4	79.9	38.1	1.0	0.117	0.0	48.7	63.4	49.1	80.2	37	1.0	0.1	0.0	48.2	64.5	48.6	80.7	37	1.0	0.021	0.0	46.0	69.6	45.7	83.3	33								
46.8	45.0	42.1	1.0	0.25	0.0	53.6	51.9	55.5	76.0	46.8	1.0	0.25	0.0	53.7	52.0	55.5	76.0	46	1.0	0.223	0.0	52.7	54.4	54.4	76.9	45	1.0	0.183	0.0	51.1	57.9	52.5	78.1	42								
56.9	52.5	50.5	1.0	0.375	0.0	59.1	40.3	62.0	74.0	56.9	1.0	0.367	0.0	58.8	41.1	61.7	74.2	56	1.0	0.313	0.0	56.5	46.2	59.1	75.0	52	1.0	0.288	0.0	55.4	48.5	57.8	75.4	49								
67.1	60.0	58.8	1.0	0.5	0.0	64.9	28.9	68.6	74.5	67.1	1.0	0.5	0.0	64.9	28.9	68.7	74.5	67	1.0	0.412	0.0	60.9	37.1	64.2	74.2	60	1.0	0.398	0.0	60.3	38.3	63.5	74.1	58								
78.6	67.5	67.2	1.0	0.625	0.0	72.1	15.4	77.1	78.6	78.6	1.0	0.617	0.0	71.6	16.5	76.7	78.4	77	1.0	0.498	0.0	64.8	29.1	68.6	74.5	67	1.0	0.494	0.0	64.6	29.5	68.4	74.5	66								
86.2	75.0	75.6	1.0	0.75	0.0	77.9	5.4	83.8	84.0	86.2	1.0	0.75	0.0	77.9	5.5	83.9	84.1	86	1.0	0.585	0.0	69.8	20.0	74.7	77.4	75	1.0	0.592	0.0	70.2	19.3	75.2	77.6	75								
92.1	82.5	83.9	1.0	0.875	0.0	83.4	-3.4	90.2	90.2	92.1	1.0	0.867	0.0	83.1	-2.7	89.8	89.9	91	1.0	0.68	0.0	74.7	11.3	80.3	81.1	82	1.0	0.703	0.0	75.8	9.4	81.5	82.0	83								
96.1	90.0	92.3	1.0	1.0	0.0	87.8	-10.2	95.4	96.0	96.1	1.0	1.0	0.0	87.8	-10.1	95.5	96.0	96	1.0	0.829	0.0	81.4	0.0	88.0	88.0	90	1.0	0.879	0.0	83.6	-3.6	90.4	90.5	92								
98.8	97.5	101.0	0.875	1.0	0.0	84.3	-13.9	89.2	90.3	98.8	0.883	1.0	0.0	84.6	-13.6	89.7	90.7	98	0.959	1.0	0.0	86.7	-11.4	93.5	94.2	97	0.807	1.0	0.0	82.4	-15.8	86.2	87.7	100								
101.8	105.0	109.7	0.75	1.0	0.0	80.7	-17.5	83.5	85.3	101.8	0.75	1.0	0.0	80.8	-17.4	83.6	85.4	101	0.682	1.0	0.0	77.8	-21.2	79.4	82.2	105	0.583	1.0	0.0	73.7	-26.1	72.7	77.3	109								
107.6	112.5	118.5	0.625	1.0	0.0	75.3	-24.0	75.7	79.4	107.6	0.633	1.0	0.0	75.7	-23.6	76.3	79.9	107	0.54	1.0	0.0	72.1	-28.0	69.5	75.0	112	0.434	1.0	0.0	68.0	-32.9	62.2	70.5	117								
114.0	120.0	127.2	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114.0	0.5	1.0	0.0	70.6	-29.6	66.5	72.8	114	0.399	1.0	0.0	66.7	-34.5	59.9	69.2	120	0.322	1.0	0.0	62.6	-40.8	53.8	67.6	127								
121.4	127.5	136.0	0.375	1.0	0.0	65.7	-35.6	58.3	68.3	121.4	0.383	1.0	0.0	66.1	-35.2	58.9	68.6	120	0.325	1.0	0.0	62.8	-40.6	54.0	67.6	127	0.249	1.0	0.0	58.4	-47.4	46.8	66.6	135								
135.3	135.0	144.7	0.25	1.0	0.0	58.4	-47.3	46.8	66.6	135.3	0.25	1.0	0.0	58.4	-47.3	46.9	66.6	135	0.253	1.0	0.0	58.6	-47.0	47.1	66.7	135	0.122	1.0	0.0	54.6	-54.2	38.4	66.5	144								
144.4	142.5	153.4	0.125	1.0	0.0	54.7	-53.9	38.5	66.3	144.4	0.133	1.0	0.0	55.0	-53.5	39.2	66.4	143	0.159	1.0	0.0	55.7	-52.3	40.9	66.4	142	0.03	1.0	0.0	51.2	-62.4	32.0	70.2	152								
155.5	150.0	162.2	0.0	1.0	0.0	50.0	-65.0	29.6	71.4	155.5	0.0	1.0	0.0	50.1	-64.9	29.6	71.4	155	0.062	1.0	0.0	52.4	-59.6	34.5	68.9	150	0.0	1.0	0.151	50.7	-62.0	19.9	65.2	162								
160.7	157.5	169.0	0.0	1.0	0.125	50.5	-62.8	21.9	66.5	160.7	0.0	1.0	0.117	50.5	-62.9	22.4	66.9	160	0.0	1.0	0.035	50.2	-64.4	27.4	70.0	157	0.0	1.0	0.261	51.3	-58.5	11.8	59.8	168								
167.7	165.0	175.9	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167.7	0.0	1.0	0.25	51.2	-58.8	12.7	60.3	167	0.0	1.0	0.2	51.0	-60.5	16.2	62.8	165	0.0	1.0	0.364	52.0	-55.0	3.9	55.2	175								
176.7	172.5	182.7	0.0	1.0	0.375	52.0	-54.5	3.1	54.6	176.7	0.0	1.0	0.367	52.0	-54.8	3.7	55.1	176	0.0	1.0	0.309	51.6	-57.0	8.0	57.7	172	0.0	1.0	0.43	52.5	-52.2	-2.0	52.3	182								
189.3	180.0	189.6	0.0	1.0	0.5	52.9	-48.6	-8.0	49.3	189.3	0.0	1.0	0.5	53.0	-48.6	-7.9	49.3	189	0.0	1.0	0.407	52.3	-53.2	0.0	53.3	180	0.0	1.0	0.502	53.0	-48.5	-8.1	49.3	189								
203.2	187.5	196.4	0.0	1.0	0.625	54.0	-42.3	-18.1	46.1	203.2	0.0	1.0	0.617	54.0	-42.8	-17.5	46.3	202	0.0	1.0	0.477	52.8	-49.9	-6.0	50.3	187	0.0	1.0	0.56	53.5	-45.9	-13.1	47.8	195								
217.2	195.0	203.2	0.0	1.0	0.75	55.0	-36.0	-27.4	45.3	217.2	0.0	1.0	0.75	55.0	-35.9	-27.3	45.3	217	0.0	1.0	0.551	53.4	-46.3	-12.3	48.0	195	0.0	1.0	0.626	54.1	-42.3	-18.1	46.1	203								
228.3	202.5	210.1	0.0	1.0	0.875	55.8	-30.7	-34.5	46.2	228.3	0.0	1.0	0.867	55.8	-31.0	-34.0	46.1	227	0.0	1.0	0.614	54.0	-42.9	-17.3	46.4	202	0.0	1.0	0.682	54.5	-39.6	-22.6	45.7	209								
238.4	210.0	216.9	0.0	1.0	1.0	56.8	-25.5	-41.5	48.7	238.4	0.0	1.0	1.0	56.8	-25.4	-41.4	48.7	238	0.0	1.0	0.685	54.5	-39.5	-22.8	45.7	210	0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	216								
242.9	217.5	223.8	0.0	0.875	1.0	54.1	-21.1	-41.3	46.4	242.9	0.0	0.883	1.0	54.3	-21.4	-41.3	46.6	242	0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	217	0.0	1.0	0.819	55.5	-33.2	-31.3	45.8	223								
249.3	225.0	230.6	0.0	0.75	1.0	50.4	-15.5	-41.1	43.9	249.3	0.0	0.75	1.0	50.4	-15.4	-41.0	44.0	249	0.0	1.0	0.837	55.6	-32.4	-32.4	45.9	225	0.0	1.0	0.904	56.1	-29.6	-36.1	46.8	230								
256.9	232.5	237.5	0.0	0.625	1.0	46.5	-9.4	-40.8	41.9	256.9	0.0	0.633	1.0	46.8	-9.8	-40.8	42.1	256	0.0	1.0	0.92	56.2	-28.9	-37.0	47.1	232	0.0	1.0	0.983	56.7	-26.2	-40.5	48.4	237								
268.2	240.0	244.3	0.0	0.5	1.0	41.7	-1.2	-40.6	40.6	268.2	0.0	0.5	1.0	41.7	-1.1	-40.6	40.7	268	0.0	1.0	0.956	1.0	55.9	-23.9	-41.4	48.0	240	0.0	0.847	1.0	53.3	-19.8	-41.3	45.9	244							
278.6	247.5	251.2	0.0	0.375	1.0	37.3	6.1	-40.2	40.7	278.6	0.0	0.383	1.0	37.6	5.6	-40.2	40.7	277	0.0	1.0	0.795	1.0	51.8	-17.4	-41.2	44.9	247	0.0	0.726	1.0	49.7	-14.3	-41.1	43.6	250							
289.6	255.0	258.0	0.0	0.25	1.0	32.8	14.3	-40.2	42.7	289.6	0.0	0.25	1.0	32.9	14.4	-40.1	42.7	289	0.0	1.0	0.657	1.0	47.5	-10.9	-40.9	42.5	255	0.0	0.613	1.0	46.1	-8.6	-40.8	41.9	258							
299.0	262.5	264.8	0.0	0.125	1.0	28.6	22.4	-40.2	46.1	299.0	0.0	0.133	1.0	28.9	21.9	-40.2	45.9	298	0.0	1.0	0.569	1.0	44.4	-5.7	-40.9	41.4	262	0.0	0.542													

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}			$LAB^*_{ddx64M}(x=LabCh)$							$rgb^*_{dex361M}$			$LAB^*_{dex361M}$						rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}			
32.3	30.0	25.4	1.0	0.0	0.0	45.4	70.9	44.8	83.9	32.3				1.0	0.0	0.255	45.7	72.2	34.4	80.0	25						
38.1	37.5	33.8	1.0	0.125	0.0	48.9	62.8	49.4	79.9	38.1				1.0	0.021	0.0	46.0	69.6	45.7	83.3	33						
46.8	45.0	42.1	1.0	0.25	0.0	53.6	51.9	55.5	76.0	46.8				1.0	0.183	0.0	51.1	57.9	52.5	78.1	42						
56.9	52.5	50.5	1.0	0.375	0.0	59.1	40.3	62.0	74.0	56.9				1.0	0.288	0.0	55.4	48.5	57.8	75.4	49						
67.1	60.0	58.8	1.0	0.5	0.0	64.9	28.9	68.6	74.5	67.1				1.0	0.398	0.0	60.3	38.3	63.5	74.1	58						
78.6	67.5	67.2	1.0	0.625	0.0	72.1	15.4	77.1	78.6	78.6				1.0	0.494	0.0	64.6	29.5	68.4	74.5	66						
86.2	75.0	75.6	1.0	0.75	0.0	77.9	5.4	83.8	84.0	86.2				1.0	0.592	0.0	70.2	19.3	75.2	77.6	75						
92.1	82.5	83.9	1.0	0.875	0.0	83.4	-3.4	90.2	90.2	92.1				1.0	0.703	0.0	75.8	9.4	81.5	82.0	83						
96.1	90.0	92.3	1.0	1.0	0.0	87.8	-10.2	95.4	96.0	96.1				1.0	0.879	0.0	83.6	-3.6	90.4	90.5	92						
98.8	97.5	101.0	0.875	1.0	0.0	84.3	-13.9	89.2	90.3	98.8				0.807	1.0	0.0	82.4	-15.8	86.2	87.7	100						
101.8	105.0	109.7	0.75	1.0	0.0	80.7	-17.5	83.5	85.3	101.8				0.583	1.0	0.0	73.7	-26.1	72.7	77.3	109						
107.6	112.5	118.5	0.625	1.0	0.0	75.3	-24.0	75.7	79.4	107.6				0.434	1.0	0.0	68.0	-32.9	62.2	70.5	117						
114.0	120.0	127.2	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114.0				0.322	1.0	0.0	62.6	-40.8	53.8	67.6	127						
121.4	127.5	136.0	0.375	1.0	0.0	65.7	-35.6	58.3	68.3	121.4				0.249	1.0	0.0	58.4	-47.4	46.8	66.6	135						
135.3	135.0	144.7	0.25	1.0	0.0	58.4	-47.3	46.8	66.6	135.3				0.122	1.0	0.0	54.6	-54.2	38.4	66.5	144						
144.4	142.5	153.4	0.125	1.0	0.0	54.7	-53.9	38.5	66.3	144.4				0.03	1.0	0.0	51.2	-62.4	32.0	70.2	152						
155.5	150.0	162.2	0.0	1.0	0.0	50.0	-65.0	29.6	71.4	155.5				0.0	1.0	0.151	50.7	-62.0	19.9	65.2	162						
160.7	157.5	169.0	0.0	1.0	0.125	50.5	-62.8	21.9	66.5	160.7				0.0	1.0	0.261	51.3	-58.5	11.8	59.8	168						
167.7	165.0	175.9	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167.7				0.0	1.0	0.364	52.0	-55.0	3.9	55.2	175						
176.7	172.5	182.7	0.0	1.0	0.375	52.0	-54.5	3.1	54.6	176.7				0.0	1.0	0.43	52.5	-52.2	-2.0	52.3	182						
189.3	180.0	189.6	0.0	1.0	0.5	52.9	-48.6	-8.0	49.3	189.3				0.0	1.0	0.502	53.0	-48.5	-8.1	49.3	189						
203.2	187.5	196.4	0.0	1.0	0.625	54.0	-42.3	-18.1	46.1	203.2				0.0	1.0	0.56	53.5	-45.9	-13.1	47.8	195						
217.2	195.0	203.2	0.0	1.0	0.75	55.0	-36.0	-27.4	45.3	217.2				0.0	1.0	0.626	54.1	-42.3	-18.1	46.1	203						
228.3	202.5	210.1	0.0	1.0	0.875	55.8	-30.7	-34.5	46.2	228.3				0.0	1.0	0.682	54.5	-39.6	-22.6	45.7	209						
238.4	210.0	216.9	0.0	1.0	1.0	56.8	-25.5	-41.5	48.7	238.4				0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	216						
242.9	217.5	223.8	0.0	0.875	1.0	54.1	-21.1	-41.3	46.4	242.9				0.0	1.0	0.819	55.5	-33.2	-31.3	45.8	223						
249.3	225.0	230.6	0.0	0.75	1.0	50.4	-15.5	-41.1	43.9	249.3				0.0	1.0	0.904	56.1	-29.6	-36.1	46.8	230						
256.9	232.5	237.5	0.0	0.625	1.0	46.5	-9.4	-40.8	41.9	256.9				0.0	1.0	0.983	56.7	-26.2	-40.5	48.4	237						
268.2	240.0	244.3	0.0	0.5	1.0	41.7	-1.2	-40.6	40.6	268.2				0.0	0.847	1.0	53.3	-19.8	-41.3	45.9	244						
278.6	247.5	251.2	0.0	0.375	1.0	37.3	6.1	-40.2	40.7	278.6				0.0	0.726	1.0	49.7	-14.3	-41.1	43.6	250						
289.6	255.0	258.0	0.0	0.25	1.0	32.8	14.3	-40.2	42.7	289.6				0.0	0.613	1.0	46.1	-8.6	-40.8	41.9	258						
299.0	262.5	264.8	0.0	0.125	1.0	28.6	22.4	-40.2	46.1	299.0				0.0	0.542	1.0	43.4	-3.9	-40.8	41.1	264						
306.2	270.0	271.7	0.0	0.0	1.0	25.0	29.5	-40.4	50.0	306.2				0.0	0.458	1.0	40.3	1.2	-40.6	40.7	271						
314.7	277.5	278.8	0.125	0.0	1.0	27.9	36.0	-36.4	51.2	314.7				0.0	0.378	1.0	37.5	5.9	-40.2	40.7	278						
322.1	285.0	285.9	0.25	0.0	1.0	28.8	41.9	-32.5	53.1	322.1				0.0	0.292	1.0	34.4	11.6	-40.3	42.0	285						
333.3	292.5	293.0	0.375	0.0	1.0	32.7	51.8	-26.0	58.0	333.3				0.0	0.211	1.0	31.5	16.8	-40.3	43.8	292						
340.5	300.0	300.1	0.5	0.0	1.0	35.6	58.6	-20.7	62.1	340.5				0.0	0.106	1.0	28.1	23.5	-40.3	46.7	300						
347.9	307.5	307.2	0.625	0.0	1.0	38.1	65.4	-14.0	66.9	347.9				0.009	0.0	1.0	25.3	30.1	-40.1	50.2	306						
352.5	315.0	314.3	0.75	0.0	1.0	41.8	71.0	-9.2	71.6	352.5				0.12	0.0	1.0	27.8	35.8	-36.5	51.2	314						
356.1	322.5	321.4	0.875	0.0	1.0	44.2	75.2	-5.0	75.3	356.1				0.231	0.0	1.0	28.7	41.1	-33.2	52.9	321						
359.8	330.0	328.6	1.0	0.0	1.0	46.1	79.3	-0.2	79.3	359.8				0.322	0.0	1.0	31.1	47.8	-29.1	56.0	328						
363.0	337.5	335.7	1.0	0.0	0.875	45.9	78.2	4.1	78.3	363.0				0.408	0.0	1.0	33.5	53.7	-24.7	59.1	335						
366.4	345.0	342.8	1.0	0.0	0.75	45.9	77.1	8.6	77.6	366.4				0.539	0.0	1.0	36.4	60.8	-18.7	63.7	342						
371.1	352.5	349.9	1.0	0.0	0.625	46.0	75.6	14.8	77.0	371.1				0.667	0.0	1.0	39.3	67.4	-12.4	68.5	349						
375.9	360.0	357.0	1.0	0.0	0.5	45.9	74.2	21.1	77.1	375.9				0.736	0.0	1.0	41.4	70.5	-9.7	71.1	352						
381.2	367.5	364.1	1.0	0.0	0.375	45.8	72.9	28.3	78.3	381.2				0.81	0.0	1.0	46.1	79.3	-0.1	79.3	359						
385.6	375.0	371.2	1.0	0.0	0.25	45.6	72.1	34.6	80.0	385.6				0.687	0.0	1.0	46.0	76.5	11.8	77.4	368						
389.3	382.5	378.3	1.0	0.0	0.125	45.5	71.4	40.1	81.9	389.3				0.485	0.0	1.0	48.5	45.9	74.1	22.0	77.3	376					
392.3	390.0	385.4	1.0	0.0	0.0	45.4	70.9	44.8	83.9	392.3				1.0	0.0	0.255	45.7	72.2	34.4	80.0	385						

2-013831-L0 QS180-71 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

salida: Offset standard print; separation cmy0*, D65, página 9/33

gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
círculo de tono, 48 pasos; $rgb-LabCh^*$ mesas

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmy0_e$

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}(x=LabCh)$	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	R_s	$rgb^*_{dd361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	R_e	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
32	30	25	1.0	0.0	0.0	45.4	70.9	44.8	83.9	32	1.0	0.0	0.0	0.0	0.0
33	31	26	1.0	0.016	0.0	45.9	69.8	45.5	83.4	33	1.0	0.0	0.055	45.5	71.2
33	32	27	1.0	0.033	0.0	46.3	68.8	46.1	82.8	33	1.0	0.0	0.013	45.5	71.0
34	33	28	1.0	0.05	0.0	46.8	67.7	46.8	82.3	34	1.0	0.0	0.015	0.0	45.9
35	34	29	1.0	0.066	0.0	47.3	66.6	47.4	81.8	35	1.0	0.0	0.036	0.0	46.5
36	35	31	1.0	0.083	0.0	47.7	65.5	48.0	81.2	36	1.0	0.0	0.057	0.0	47.1
36	36	32	1.0	0.1	0.0	48.2	64.4	48.5	80.7	36	1.0	0.0	0.079	0.0	47.6
37	37	33	1.0	0.116	0.0	48.6	63.3	49.1	80.2	37	1.0	0.0	0.1	0.0	48.2
38	38	34	1.0	0.133	0.0	49.2	62.1	49.8	79.6	38	1.0	0.0	0.121	0.0	48.8
39	39	35	1.0	0.15	0.0	49.8	60.7	50.7	79.1	39	1.0	0.0	0.137	0.0	49.4
41	40	36	1.0	0.166	0.0	50.5	59.2	51.6	78.6	41	1.0	0.0	0.151	0.0	49.9
42	41	37	1.0	0.183	0.0	51.1	57.8	52.5	78.1	42	1.0	0.0	0.166	0.0	50.5
43	42	38	1.0	0.2	0.0	51.7	56.3	53.3	77.5	43	1.0	0.0	0.18	0.0	51.0
44	43	39	1.0	0.216	0.0	52.4	54.9	54.0	77.0	44	1.0	0.0	0.194	0.0	51.6
45	44	41	1.0	0.233	0.0	53.0	53.4	54.8	76.5	45	1.0	0.0	0.209	0.0	52.1
46	45	42	1.0	0.25	0.0	53.6	51.9	55.5	76.0	46	1.0	0.0	0.223	0.0	52.7
48	46	43	1.0	0.266	0.0	54.4	50.4	56.5	75.7	48	1.0	0.0	0.237	0.0	53.2
49	47	44	1.0	0.283	0.0	55.1	48.9	57.4	75.4	49	1.0	0.0	0.251	0.0	53.7
50	48	45	1.0	0.3	0.0	55.8	47.4	58.4	75.2	50	1.0	0.0	0.264	0.0	54.3
52	49	46	1.0	0.316	0.0	56.6	45.8	59.2	74.9	52	1.0	0.0	0.276	0.0	54.8
53	50	47	1.0	0.333	0.0	57.3	44.2	60.1	74.6	53	1.0	0.0	0.288	0.0	55.4
54	51	48	1.0	0.35	0.0	58.0	42.7	60.9	74.4	54	1.0	0.0	0.301	0.0	55.9
56	52	49	1.0	0.366	0.0	58.8	41.1	61.7	74.1	56	1.0	0.0	0.313	0.0	56.5
57	53	51	1.0	0.383	0.0	59.5	39.5	62.5	74.0	57	1.0	0.0	0.326	0.0	57.0
59	54	52	1.0	0.4	0.0	60.3	38.1	63.5	74.1	59	1.0	0.0	0.338	0.0	57.6
60	55	53	1.0	0.416	0.0	61.0	36.6	64.5	74.1	60	1.0	0.0	0.35	0.0	58.1
61	56	54	1.0	0.433	0.0	61.8	35.1	65.4	74.2	61	1.0	0.0	0.363	0.0	58.6
63	57	55	1.0	0.45	0.0	62.6	33.6	66.2	74.3	63	1.0	0.0	0.375	0.0	59.2
64	58	56	1.0	0.466	0.0	63.3	32.0	67.1	74.4	64	1.0	0.0	0.387	0.0	59.8
65	59	57	1.0	0.483	0.0	64.1	30.5	67.9	74.4	65	1.0	0.0	0.4	0.0	60.3
67	60	58	1.0	0.5	0.0	64.9	28.9	68.6	74.5	67	1.0	0.0	0.412	0.0	60.9
68	61	60	1.0	0.516	0.0	65.8	27.2	69.9	75.0	68	1.0	0.0	0.424	0.0	61.4
70	62	61	1.0	0.533	0.0	66.8	25.5	71.1	75.6	70	1.0	0.0	0.436	0.0	62.0
71	63	62	1.0	0.55	0.0	67.7	23.8	72.3	76.1	71	1.0	0.0	0.449	0.0	62.6
73	64	63	1.0	0.566	0.0	68.7	22.0	73.5	76.7	73	1.0	0.0	0.461	0.0	63.1
74	65	64	1.0	0.583	0.0	69.7	20.2	74.6	77.3	74	1.0	0.0	0.473	0.0	63.7
76	66	65	1.0	0.6	0.0	70.6	18.3	75.6	77.8	76	1.0	0.0	0.486	0.0	64.2
77	67	66	1.0	0.616	0.0	71.6	16.4	76.6	78.4	77	1.0	0.0	0.498	0.0	64.8
79	68	67	1.0	0.633	0.0	72.5	14.8	77.6	79.0	79	1.0	0.0	0.509	0.0	65.4
80	69	68	1.0	0.65	0.0	73.2	13.6	78.5	79.7	80	1.0	0.0	0.52	0.0	66.1
81	70	70	1.0	0.666	0.0	74.0	12.3	79.5	80.4	81	1.0	0.0	0.531	0.0	66.7
82	71	71	1.0	0.683	0.0	74.8	11.0	80.4	81.1	82	1.0	0.0	0.542	0.0	67.3
83	72	72	1.0	0.7	0.0	75.6	9.6	81.3	81.9	83	1.0	0.0	0.553	0.0	67.9
84	73	73	1.0	0.716	0.0	76.3	8.3	82.2	82.6	84	1.0	0.0	0.564	0.0	68.6
85	74	74	1.0	0.733	0.0	77.1	6.9	83.0	83.3	85	1.0	0.0	0.574	0.0	69.2
86	75	75	1.0	0.75	0.0	77.9	5.4	83.8	84.0	86	1.0	0.0	0.585	0.0	69.8

2-013931-L0 QS180-71 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

salida: Offset standard print; separation cmy0*, D65, página 10/33

gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
círculo de tono, 48 pasos; $rgb-LabCh^*$ mesas

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmy0_e$

TUB matrícula: 20130201-QS18/QS18L0NP.PDF /.PS
aplicación para la medida salida en la impresión offset, separación cmy0 (CMY0)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours RYGBM_e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dd361M}(x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}			
86	75	75	1.0	0.75 0.0	77.9	5.4	83.8	84.0	86	1.0	0.75 0.0	77.9	5.4	83.8	84.0	86
87	76	76	1.0	0.766 0.0	78.6	4.3	84.7	84.8	87	1.0	0.767 0.0	78.6	4.3	84.7	84.8	87
87	77	77	1.0	0.783 0.0	79.4	3.2	85.6	85.7	87	1.0	0.783 0.0	79.4	3.2	85.6	85.7	87
88	78	78	1.0	0.8 0.0	80.1	2.0	86.5	86.5	88	1.0	0.8 0.0	80.1	2.0	86.5	86.5	88
89	79	80	1.0	0.816 0.0	80.8	0.8	87.3	87.3	89	1.0	0.817 0.0	80.8	0.8	87.3	87.3	89
90	80	81	1.0	0.833 0.0	81.6	-0.3	88.2	88.2	90	1.0	0.833 0.0	81.6	-0.3	88.2	88.2	90
91	81	82	1.0	0.85 0.0	82.3	-1.5	89.0	89.0	91	1.0	0.85 0.0	82.3	-1.5	89.0	89.0	91
91	82	83	1.0	0.866 0.0	83.1	-2.8	89.8	89.8	91	1.0	0.867 0.0	83.1	-2.8	89.8	89.8	91
92	83	84	1.0	0.883 0.0	83.7	-3.8	90.5	90.6	92	1.0	0.883 0.0	83.7	-3.8	90.5	90.6	92
92	84	85	1.0	0.9 0.0	84.3	-4.7	91.3	91.4	92	1.0	0.9 0.0	84.3	-4.7	91.3	91.4	92
93	85	86	1.0	0.916 0.0	84.9	-5.6	92.0	92.2	93	1.0	0.917 0.0	84.9	-5.6	92.0	92.2	93
94	86	87	1.0	0.933 0.0	85.5	-6.5	92.7	92.9	94	1.0	0.933 0.0	85.5	-6.5	92.7	92.9	94
94	87	88	1.0	0.95 0.0	86.0	-7.4	93.4	93.7	94	1.0	0.95 0.0	86.0	-7.4	93.4	93.7	94
95	88	90	1.0	0.966 0.0	86.6	-8.3	94.1	94.5	95	1.0	0.967 0.0	86.6	-8.3	94.1	94.5	95
95	89	91	1.0	0.983 0.0	87.2	-9.2	94.8	95.2	95	1.0	0.983 0.0	87.2	-9.2	94.8	95.2	95
96	90	92	1.0	1.0 0.0	87.8	-10.2	95.4	96.0	96	1.0	1.0 0.0	87.8	-10.2	95.4	96.0	96
96	91	93	0.983	1.0 0.0	87.3	-10.7	94.6	95.2	96	1.0	0.983 1.0 0.0	87.3	-10.7	94.6	95.2	96
96	92	94	0.966	1.0 0.0	86.8	-11.2	93.8	94.5	96	1.0	0.967 1.0 0.0	86.8	-11.2	93.8	94.5	96
97	93	95	0.95	1.0 0.0	86.4	-11.7	93.0	93.7	97	1.0	0.95 1.0 0.0	86.4	-11.7	93.0	93.7	97
97	94	96	0.933	1.0 0.0	85.9	-12.2	92.2	93.0	97	1.0	0.933 1.0 0.0	85.9	-12.2	92.2	93.0	97
97	95	98	0.916	1.0 0.0	85.5	-12.7	91.3	92.2	97	1.0	0.917 1.0 0.0	85.5	-12.7	91.3	92.2	97
98	96	99	0.9	1.0 0.0	85.0	-13.2	90.5	91.5	98	1.0	0.9 1.0 0.0	85.0	-13.2	90.5	91.5	98
98	97	100	0.883	1.0 0.0	84.5	-13.6	89.7	90.7	98	1.0	0.883 1.0 0.0	84.5	-13.6	89.7	90.7	98
99	98	101	0.866	1.0 0.0	84.1	-14.1	88.9	90.0	99	1.0	0.867 1.0 0.0	84.1	-14.1	88.9	90.0	99
99	99	102	0.85	1.0 0.0	83.6	-14.6	88.1	89.3	99	1.0	0.85 1.0 0.0	83.6	-14.6	88.1	89.3	99
99	100	103	0.833	1.0 0.0	83.1	-15.1	87.4	88.7	99	1.0	0.833 1.0 0.0	83.1	-15.1	87.4	88.7	99
100	101	105	0.816	1.0 0.0	82.6	-15.6	86.6	88.0	100	1.0	0.817 1.0 0.0	82.6	-15.6	86.6	88.0	100
100	102	106	0.8	1.0 0.0	82.2	-16.1	85.8	87.3	100	1.0	0.8 1.0 0.0	82.2	-16.1	85.8	87.3	100
101	103	107	0.783	1.0 0.0	81.7	-16.6	85.1	86.7	101	1.0	0.783 1.0 0.0	81.7	-16.6	85.1	86.7	101
101	104	108	0.766	1.0 0.0	81.2	-17.0	84.3	86.0	101	1.0	0.767 1.0 0.0	81.2	-17.0	84.3	86.0	101
101	105	109	0.75	1.0 0.0	80.7	-17.5	83.5	85.3	101	1.0	0.75 1.0 0.0	80.7	-17.5	83.5	85.3	101
102	106	110	0.733	1.0 0.0	80.0	-18.4	82.5	84.6	102	1.0	0.733 1.0 0.0	80.0	-18.4	82.5	84.6	102
103	107	112	0.716	1.0 0.0	79.3	-19.3	81.5	83.8	103	1.0	0.717 1.0 0.0	79.3	-19.3	81.5	83.8	103
104	108	113	0.7	1.0 0.0	78.5	-20.2	80.5	83.0	104	1.0	0.7 1.0 0.0	78.5	-20.2	80.5	83.0	104
104	109	114	0.683	1.0 0.0	77.8	-21.1	79.4	82.2	104	1.0	0.683 1.0 0.0	77.8	-21.1	79.4	82.2	104
105	110	115	0.666	1.0 0.0	77.1	-22.0	78.4	81.4	105	1.0	0.667 1.0 0.0	77.1	-22.0	78.4	81.4	105
106	111	116	0.65	1.0 0.0	76.4	-22.8	77.3	80.6	106	1.0	0.65 1.0 0.0	76.4	-22.8	77.3	80.6	106
107	112	117	0.633	1.0 0.0	75.6	-23.6	76.2	79.8	107	1.0	0.633 1.0 0.0	75.6	-23.6	76.2	79.8	107
108	113	119	0.616	1.0 0.0	75.0	-24.4	75.1	79.0	108	1.0	0.617 1.0 0.0	75.0	-24.4	75.1	79.0	108
108	114	120	0.6	1.0 0.0	74.3	-25.3	73.9	78.1	108	1.0	0.6 1.0 0.0	74.3	-25.3	73.9	78.1	108
109	115	121	0.583	1.0 0.0	73.7	-26.1	72.7	77.2	109	1.0	0.583 1.0 0.0	73.7	-26.1	72.7	77.2	109
110	116	122	0.566	1.0 0.0	73.1	-26.9	71.4	76.3	110	1.0	0.567 1.0 0.0	73.1	-26.9	71.4	76.3	110
111	117	123	0.55	1.0 0.0	72.4	-27.6	70.2	75.5	111	1.0	0.55 1.0 0.0	72.4	-27.6	70.2	75.5	111
112	118	124	0.533	1.0 0.0	71.8	-28.3	69.0	74.6	112	1.0	0.533 1.0 0.0	71.8	-28.3	69.0	74.6	112
113	119	126	0.516	1.0 0.0	71.2	-29.0	67.7	73.7	113	1.0	0.517 1.0 0.0	71.2	-29.0	67.7	73.7	113
114	120	127	0.5	1.0 0.0	70.6	-29.7	66.5	72.8	114	1.0	0.5 1.0 0.0	70.6	-29.7	66.5	72.8	114

2-0131031-L0 QS180-71 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

salida: Offset standard print; separation cmy0*, D65, página 11/33

gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
círculo de tono, 48 pasos; $rgb-LabCh^*$ mesas

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmy0_e$

TUB matrícula: 20130201-QS18/QS18L0NP.PDF /.PS
aplicación para la medida salida en la impresión offset, separación cmy0 (CMY0)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}		$LAB^*_{dd361Mi}(x=LabCh)$		$rgb^*_{ds361Mi}$		$LAB^*_{dsx361Mi}(x=LabCh)$		$rgb^*_{dd361Mi}$		$rgb^*_{de361Mi}$		$LAB^*_{dex361Mi}(x=LabCh)$		$rgb^*_{dd361Mi}$		rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}											
114	120	127	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114	0.399	1.0	0.0	66.7	-34.5	59.9	69.2	120	0.5	1.0	0.0											
115	121	128	0.483	1.0	0.0	69.9	-30.5	65.4	72.2	115	0.382	1.0	0.0	66.0	-35.2	58.8	68.6	121	0.483	1.0	0.0											
116	122	129	0.466	1.0	0.0	69.3	-31.4	64.3	71.6	116	0.37	1.0	0.0	65.4	-36.1	57.9	68.3	122	0.467	1.0	0.0											
117	123	130	0.45	1.0	0.0	68.6	-32.2	63.2	71.0	117	0.361	1.0	0.0	64.9	-37.0	57.1	68.1	123	0.45	1.0	0.0											
117	124	131	0.433	1.0	0.0	68.0	-33.0	62.1	70.4	117	0.352	1.0	0.0	64.4	-37.9	56.4	68.0	124	0.433	1.0	0.0											
118	125	133	0.416	1.0	0.0	67.3	-33.8	61.0	69.8	118	0.343	1.0	0.0	63.8	-38.8	55.6	67.9	125	0.417	1.0	0.0											
119	126	134	0.4	1.0	0.0	66.7	-34.5	59.9	69.2	119	0.334	1.0	0.0	63.3	-39.7	54.8	67.8	126	0.4	1.0	0.0											
120	127	135	0.383	1.0	0.0	66.0	-35.2	58.8	68.6	120	0.325	1.0	0.0	62.8	-40.6	54.0	67.6	127	0.383	1.0	0.0											
122	128	136	0.366	1.0	0.0	65.2	-36.4	57.6	68.2	122	0.316	1.0	0.0	62.3	-41.5	53.2	67.5	128	0.367	1.0	0.0											
124	129	137	0.35	1.0	0.0	64.2	-38.2	56.2	67.9	124	0.307	1.0	0.0	61.7	-42.3	52.4	67.4	129	0.35	1.0	0.0											
126	130	138	0.333	1.0	0.0	63.2	-39.8	54.7	67.7	126	0.298	1.0	0.0	61.2	-43.1	51.5	67.3	130	0.333	1.0	0.0											
127	131	140	0.316	1.0	0.0	62.3	-41.4	53.2	67.5	127	0.289	1.0	0.0	60.7	-44.0	50.7	67.2	131	0.317	1.0	0.0											
129	132	141	0.3	1.0	0.0	61.3	-43.0	51.7	67.3	129	0.28	1.0	0.0	60.2	-44.8	49.8	67.0	132	0.3	1.0	0.0											
131	133	142	0.283	1.0	0.0	60.3	-44.5	50.1	67.0	131	0.271	1.0	0.0	59.6	-45.5	48.9	66.9	133	0.283	1.0	0.0											
133	134	143	0.266	1.0	0.0	59.3	-45.9	48.5	66.8	133	0.262	1.0	0.0	59.1	-46.3	48.0	66.8	134	0.267	1.0	0.0											
135	135	144	0.25	1.0	0.0	58.4	-47.3	46.8	66.6	135	0.253	1.0	0.0	58.6	-47.0	47.1	66.7	135	0.25	1.0	0.0											
136	136	145	0.233	1.0	0.0	57.9	-48.3	45.8	66.5	136	0.241	1.0	0.0	58.1	-47.8	46.3	66.6	136	0.233	1.0	0.0											
137	137	147	0.216	1.0	0.0	57.4	-49.2	44.7	66.5	137	0.227	1.0	0.0	57.7	-48.6	45.4	66.6	137	0.217	1.0	0.0											
138	138	148	0.2	1.0	0.0	56.9	-50.1	43.6	66.5	138	0.213	1.0	0.0	57.3	-49.4	44.5	66.6	138	0.2	1.0	0.0											
140	139	149	0.183	1.0	0.0	56.4	-51.0	42.5	66.4	140	0.2	1.0	0.0	56.9	-50.1	43.6	66.5	139	0.183	1.0	0.0											
141	140	150	0.166	1.0	0.0	55.9	-51.9	41.4	66.4	141	0.186	1.0	0.0	56.5	-50.8	42.7	66.5	140	0.167	1.0	0.0											
142	141	151	0.15	1.0	0.0	55.4	-52.7	40.3	66.4	142	0.172	1.0	0.0	56.1	-51.6	41.8	66.5	141	0.15	1.0	0.0											
143	142	152	0.133	1.0	0.0	54.9	-53.5	39.1	66.3	143	0.159	1.0	0.0	55.7	-52.3	40.9	66.4	142	0.133	1.0	0.0											
145	143	154	0.116	1.0	0.0	54.4	-54.7	38.0	66.6	145	0.145	1.0	0.0	55.3	-52.9	40.0	66.4	143	0.117	1.0	0.0											
146	144	155	0.1	1.0	0.0	53.7	-56.2	37.0	67.3	146	0.131	1.0	0.0	54.9	-53.6	39.0	66.4	144	0.1	1.0	0.0											
148	145	156	0.083	1.0	0.0	53.1	-57.7	35.9	68.0	148	0.119	1.0	0.0	54.5	-54.5	38.2	66.6	145	0.083	1.0	0.0											
149	146	157	0.066	1.0	0.0	52.5	-59.2	34.7	68.7	149	0.107	1.0	0.0	54.1	-55.5	37.5	67.1	146	0.067	1.0	0.0											
151	147	158	0.049	1.0	0.0	51.9	-60.7	33.5	69.4	151	0.096	1.0	0.0	53.7	-56.5	36.8	67.5	147	0.05	1.0	0.0											
152	148	159	0.033	1.0	0.0	51.3	-62.2	32.2	70.0	152	0.085	1.0	0.0	53.2	-57.6	36.0	68.0	148	0.033	1.0	0.0											
154	149	161	0.016	1.0	0.0	50.6	-63.6	30.9	70.7	154	0.074	1.0	0.0	52.8	-58.6	35.3	68.4	149	0.017	1.0	0.0											
155	150	162	0.0	1.0	0.0	50.0	-65.0	29.6	71.4	155	G_d 0.062	1.0	0.0	52.4	-59.6	34.5	68.9	150	G_s 0.0	1.0	0.0	0.0	1.0	0.151	50.7	-62.0	19.9	65.2	162	G_e 0.0	1.0	0.0
156	151	163	0.0	1.0	0.016	50.1	-64.7	28.5	70.7	156	0.051	1.0	0.0	52.0	-60.6	33.6	69.4	151	0.0	1.0	0.017	0.0	1.0	0.167	50.8	-61.6	18.7	64.4	163	0.0	1.0	0.017
156	152	164	0.0	1.0	0.033	50.1	-64.5	27.4	70.1	156	0.04	1.0	0.0	51.5	-61.6	32.8	69.8	152	0.0	1.0	0.033	0.0	1.0	0.183	50.9	-61.1	17.5	63.6	164	0.0	1.0	0.033
157	153	164	0.0	1.0	0.05	50.2	-64.2	26.4	69.4	157	0.028	1.0	0.0	51.1	-62.5	31.9	70.3	153	0.0	1.0	0.05	0.0	1.0	0.2	51.0	-60.6	16.3	62.8	164	0.0	1.0	0.05
158	154	165	0.0	1.0	0.066	50.3	-63.9	25.4	68.8	158	0.017	1.0	0.0	50.7	-63.5	31.0	70.7	154	0.0	1.0	0.067	0.0	1.0	0.216	51.0	-60.0	15.1	62.0	165	0.0	1.0	0.067
159	155	166	0.0	1.0	0.083	50.3	-63.6	24.4	68.1	159	0.006	1.0	0.0	50.3	-64.4	30.1	71.2	155	0.0	1.0	0.083	0.0	1.0	0.232	51.1	-59.5	14.0	61.2	166	0.0	1.0	0.083
159	156	167	0.0	1.0	0.1	50.4	-63.3	23.4	67.5	159	0.0	1.0	0.012	50.1	-64.7	28.9	71.0	156	0.0	1.0	0.1	0.0	1.0	0.248	51.2	-58.9	12.9	60.4	167	0.0	1.0	0.1
160	157	168	0.0	1.0	0.116	50.5	-62.9	22.4	66.8	160	0.0	1.0	0.035	50.2	-64.4	27.4	70.0	157	0.0	1.0	0.117	0.0	1.0	0.261	51.3	-58.5	11.8	59.8	168	0.0	1.0	0.117
161	158	169	0.0	1.0	0.133	50.5	-62.5	21.2	66.1	161	0.0	1.0	0.059	50.3	-64.0	25.9	69.1	158	0.0	1.0	0.133	0.0	1.0	0.274	51.4	-58.1	10.8	59.2	169	0.0	1.0	0.133
162	159	170	0.0	1.0	0.15	50.6	-62.1	19.9	65.2	162	0.0	1.0	0.083	50.4	-63.5	24.4	68.2	159	0.0	1.0	0.15	0.0	1.0	0.287	51.5	-57.7	9.7	58.6	170	0.0	1.0	0.15
163	160	171	0.0	1.0	0.166	50.7	-61.6	18.7	64.4	163	0.0	1.0	0.107	50.5	-63.1	23.0	67.2	160	0.0	1.0	0.167	0.0	1.0	0.3	51.5	-57.3	8.7	58.1	171	0.0	1.0	0.167
164	161	172	0.0	1.0	0.183	50.8	-61.1	17.4	63.6	164	0.0	1.0	0.129	50.6	-62.6	21.6	66.3	161	0.0	1.0	0.183	0.0	1.0	0.313	51.6	-56.9	7.7	57.5	172	0.0	1.0	0.183
164	162	173	0.0	1.0	0.2	50.9	-60.6	16.2	62.7	164	0.0	1.0	0.147	50.7	-62.1	20.2	65.4	162	0.0	1.0	0.2	0.0	1.0	0.325	51.7	-56.4	6.8	56.9	173	0.0	1.0	0.2
165	163	174	0.0	1.0	0.216	51.0	-60.1	15.0	61.9	165	0.																					

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, 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 $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$																
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dsx361Mi}$ (x=LabCh)	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}			
167	165	175	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167						
168	166	176	0.0	1.0	0.266	51.3	-58.4	11.3	59.5	168						
170	167	177	0.0	1.0	0.283	51.4	-57.9	10.0	58.8	170						
171	168	178	0.0	1.0	0.3	51.5	-57.3	8.7	58.0	171						
172	169	179	0.0	1.0	0.316	51.6	-56.8	7.4	57.3	172						
173	170	180	0.0	1.0	0.333	51.7	-56.2	6.1	56.5	173						
174	171	181	0.0	1.0	0.35	51.8	-55.5	4.9	55.8	174						
176	172	182	0.0	1.0	0.366	51.9	-54.9	3.7	55.0	176						
177	173	183	0.0	1.0	0.383	52.0	-54.2	2.3	54.3	177						
179	174	184	0.0	1.0	0.4	52.2	-53.6	0.7	53.6	179						
180	175	185	0.0	1.0	0.416	52.3	-52.8	-0.8	52.9	180						
182	176	185	0.0	1.0	0.433	52.4	-52.1	-2.3	52.1	182						
184	177	186	0.0	1.0	0.45	52.6	-51.3	-3.8	51.4	184						
185	178	187	0.0	1.0	0.466	52.7	-50.4	-5.3	50.7	185						
187	179	188	0.0	1.0	0.483	52.8	-49.6	-6.6	50.0	187						
189	180	189	0.0	1.0	0.5	52.9	-48.6	-8.0	49.3	189						
191	181	190	0.0	1.0	0.516	53.1	-47.9	-9.5	48.9	191						
193	182	191	0.0	1.0	0.533	53.2	-47.2	-10.9	48.4	193						
194	183	192	0.0	1.0	0.55	53.4	-46.4	-12.3	48.0	194						
196	184	193	0.0	1.0	0.566	53.5	-45.6	-13.7	47.6	196						
198	185	194	0.0	1.0	0.583	53.6	-44.7	-15.0	47.1	198						
200	186	195	0.0	1.0	0.6	53.8	-43.8	-16.3	46.7	200						
202	187	195	0.0	1.0	0.616	53.9	-42.8	-17.5	46.3	202						
204	188	196	0.0	1.0	0.633	54.1	-42.0	-18.8	46.0	204						
206	189	197	0.0	1.0	0.65	54.2	-41.2	-20.1	45.9	206						
207	190	198	0.0	1.0	0.666	54.3	-40.5	-21.4	45.8	207						
209	191	199	0.0	1.0	0.683	54.5	-39.7	-22.7	45.7	209						
211	192	200	0.0	1.0	0.7	54.6	-38.8	-23.9	45.6	211						
213	193	201	0.0	1.0	0.716	54.7	-37.9	-25.1	45.5	213						
215	194	202	0.0	1.0	0.733	54.9	-37.0	-26.3	45.4	215						
217	195	203	0.0	1.0	0.75	55.0	-36.0	-27.4	45.3	217						
218	196	204	0.0	1.0	0.766	55.1	-35.4	-28.4	45.4	218						
220	197	205	0.0	1.0	0.783	55.2	-34.7	-29.4	45.5	220						
221	198	206	0.0	1.0	0.8	55.3	-34.0	-30.3	45.6	221						
223	199	206	0.0	1.0	0.816	55.4	-33.3	-31.3	45.7	223						
224	200	207	0.0	1.0	0.833	55.6	-32.6	-32.2	45.9	224						
226	201	208	0.0	1.0	0.85	55.7	-31.8	-33.1	46.0	226						
227	202	209	0.0	1.0	0.866	55.8	-31.1	-34.0	46.1	227						
229	203	210	0.0	1.0	0.883	55.9	-30.4	-35.0	46.3	229						
230	204	211	0.0	1.0	0.9	56.0	-29.7	-35.9	46.7	230						
231	205	212	0.0	1.0	0.916	56.1	-29.1	-36.9	47.0	231						
233	206	213	0.0	1.0	0.933	56.3	-28.4	-37.8	47.3	233						
234	207	214	0.0	1.0	0.95	56.4	-27.7	-38.8	47.7	234						
235	208	215	0.0	1.0	0.966	56.5	-27.0	-39.7	48.0	235						
237	209	216	0.0	1.0	0.983	56.6	-26.2	-40.6	48.3	237						
238	210	216	0.0	1.0	1.0	56.8	-25.5	-41.5	48.7	238						
C_d										C_s						

QS180-71	LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0
----------	---

salida: Offset standard print; separation cmv0*, D65, página 13/37

gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
círculo de tono, 48 pasos; *rgb-LabCh**mesas

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmy0_e$

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Six hue angles of the device colours RYGBM _d : $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours RYGBM _e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$																																	
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}			$LAB^*_{dd361Mi}(x=LabCh)$			C_d	$rgb^*_{ds361Mi}$			$LAB^*_{ds361Mi}(x=LabCh)$			$210C_s$	$rgb^*_{dd361Mi}$			$rgb^*_{de361Mi}$			$LAB^*_{dex361Mi}(x=LabCh)$			$rgb^*_{dd361Mi}$			rgb^*_{da}	rgb^*_{ds}	rgb^*_{de}		
238	210	216	0.0	1.0	1.0	56.8	-25.5	-41.5	48.7	238	0.0	1.0	0.685	54.5	-39.5	-22.8	45.7	210	0.0	1.0	1.0	0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	216	0.0	1.0	1.0	
239	211	217	0.0	0.983	1.0	56.4	-24.9	-41.5	48.4	239	0.0	1.0	0.694	54.6	-39.0	-23.4	45.7	211	0.0	0.983	1.0	0.0	1.0	0.757	55.1	-35.7	-27.8	45.4	217	0.0	0.983	1.0	
239	212	218	0.0	0.966	1.0	56.1	-24.3	-41.5	48.1	239	0.0	1.0	0.703	54.7	-38.6	-24.1	45.6	212	0.0	0.967	1.0	0.0	1.0	0.767	55.2	-35.3	-28.4	45.4	218	0.0	0.967	1.0	
240	213	219	0.0	0.95	1.0	55.7	-23.7	-41.5	47.8	240	0.0	1.0	0.712	54.7	-38.1	-24.7	45.6	213	0.0	0.95	1.0	0.0	1.0	0.778	55.2	-34.9	-29.0	45.5	219	0.0	0.95	1.0	
240	214	220	0.0	0.933	1.0	55.4	-23.1	-41.5	47.5	240	0.0	1.0	0.721	54.8	-37.6	-25.3	45.5	214	0.0	0.933	1.0	0.0	1.0	0.788	55.3	-34.5	-29.6	45.6	220	0.0	0.933	1.0	
241	215	221	0.0	0.916	1.0	55.0	-22.5	-41.4	47.2	241	0.0	1.0	0.73	54.9	-37.1	-26.0	45.4	215	0.0	0.917	1.0	0.0	1.0	0.798	55.4	-34.1	-30.2	45.7	221	0.0	0.917	1.0	
242	216	222	0.0	0.9	1.0	54.6	-22.0	-41.4	46.9	242	0.0	1.0	0.739	55.0	-36.6	-26.6	45.4	216	0.0	0.9	1.0	0.0	1.0	0.808	55.4	-33.6	-30.8	45.7	222	0.0	0.9	1.0	
242	217	223	0.0	0.883	1.0	54.3	-21.4	-41.4	46.6	242	0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	217	0.0	0.883	1.0	0.0	1.0	0.819	55.5	-33.2	-31.3	45.8	223	0.0	0.883	1.0	
243	218	224	0.0	0.866	1.0	53.9	-20.7	-41.3	46.3	243	0.0	1.0	0.758	55.1	-35.6	-27.8	45.4	218	0.0	0.867	1.0	0.0	1.0	0.829	55.6	-32.7	-31.9	45.9	224	0.0	0.867	1.0	
244	219	225	0.0	0.85	1.0	53.4	-20.0	-41.3	45.9	244	0.0	1.0	0.769	55.2	-35.2	-28.5	45.4	219	0.0	0.85	1.0	0.0	1.0	0.839	55.6	-32.3	-32.5	45.9	225	0.0	0.85	1.0	
245	220	226	0.0	0.833	1.0	52.9	-19.2	-41.3	45.6	245	0.0	1.0	0.781	55.3	-34.8	-29.2	45.5	220	0.0	0.833	1.0	0.0	1.0	0.85	55.7	-31.8	-33.1	46.0	226	0.0	0.833	1.0	
245	221	227	0.0	0.816	1.0	52.4	-18.5	-41.3	45.3	245	0.0	1.0	0.792	55.3	-34.3	-29.8	45.6	221	0.0	0.817	1.0	0.0	1.0	0.86	55.8	-31.3	-33.6	46.1	227	0.0	0.817	1.0	
246	222	227	0.0	0.8	1.0	51.9	-17.7	-41.3	44.9	246	0.0	1.0	0.803	55.4	-33.9	-30.5	45.7	222	0.0	0.8	1.0	0.0	1.0	0.87	55.8	-30.8	-34.2	46.2	227	0.0	0.8	1.0	
247	223	228	0.0	0.783	1.0	51.4	-17.0	-41.2	44.6	247	0.0	1.0	0.815	55.5	-33.4	-31.1	45.8	223	0.0	0.783	1.0	0.0	1.0	0.881	55.9	-30.4	-34.8	46.3	228	0.0	0.783	1.0	
248	224	229	0.0	0.766	1.0	50.9	-16.2	-41.2	44.2	248	0.0	1.0	0.826	55.6	-32.9	-31.7	45.8	224	0.0	0.767	1.0	0.0	1.0	0.893	56.0	-30.0	-35.4	46.6	229	0.0	0.767	1.0	
249	225	230	0.0	0.75	1.0	50.4	-15.5	-41.1	43.9	249	0.0	1.0	0.837	55.6	-32.4	-32.4	45.9	225	0.0	0.75	1.0	0.0	1.0	0.904	56.1	-29.6	-36.1	46.8	230	0.0	0.75	1.0	
250	226	231	0.0	0.733	1.0	49.9	-14.7	-41.1	43.6	250	0.0	1.0	0.849	55.7	-31.9	-33.0	46.0	226	0.0	0.733	1.0	0.0	1.0	0.915	56.2	-29.1	-36.7	47.0	231	0.0	0.733	1.0	
251	227	232	0.0	0.716	1.0	49.4	-13.8	-41.1	43.4	251	0.0	1.0	0.86	55.8	-31.3	-33.6	46.1	227	0.0	0.717	1.0	0.0	1.0	0.926	56.3	-28.7	-37.4	47.2	232	0.0	0.717	1.0	
252	228	233	0.0	0.7	1.0	48.8	-13.0	-41.1	43.1	252	0.0	1.0	0.871	55.9	-30.8	-34.2	46.2	228	0.0	0.7	1.0	0.0	1.0	0.938	56.3	-28.2	-38.0	47.5	233	0.0	0.7	1.0	
253	229	234	0.0	0.683	1.0	48.3	-12.2	-41.1	42.9	253	0.0	1.0	0.883	55.9	-30.3	-34.9	46.4	229	0.0	0.683	1.0	0.0	1.0	0.949	56.4	-27.7	-38.6	47.7	234	0.0	0.683	1.0	
254	230	235	0.0	0.666	1.0	47.8	-11.4	-41.0	42.6	254	0.0	1.0	0.896	56.0	-29.9	-35.6	46.6	230	0.0	0.667	1.0	0.0	1.0	0.96	56.5	-27.2	-39.3	47.9	235	0.0	0.667	1.0	
255	231	236	0.0	0.65	1.0	47.3	-10.6	-41.0	42.3	255	0.0	1.0	0.908	56.1	-29.4	-36.3	46.9	231	0.0	0.65	1.0	0.0	1.0	0.972	56.6	-26.7	-39.9	48.2	236	0.0	0.65	1.0	
256	232	237	0.0	0.633	1.0	46.8	-9.8	-40.9	42.1	256	0.0	1.0	0.92	56.2	-28.9	-37.0	47.1	232	0.0	0.633	1.0	0.0	1.0	0.983	56.7	-26.2	-40.5	48.4	237	0.0	0.633	1.0	
257	233	237	0.0	0.616	1.0	46.2	-8.9	-40.9	41.8	257	0.0	1.0	0.933	56.3	-28.4	-37.7	47.4	233	0.0	0.617	1.0	0.0	1.0	0.994	56.8	-25.7	-41.1	48.6	237	0.0	0.617	1.0	
259	234	238	0.0	0.6	1.0	45.5	-7.8	-40.9	41.7	259	0.0	1.0	0.945	56.4	-27.9	-38.4	47.6	234	0.0	0.6	1.0	0.0	1.0	0.988	1.0	56.6	-25.0	-41.4	48.5	238	0.0	0.6	1.0
260	235	239	0.0	0.583	1.0	44.9	-6.6	-41.0	41.5	260	0.0	1.0	0.957	56.5	-27.4	-39.1	47.9	235	0.0	0.583	1.0	0.0	1.0	0.962	1.0	56.0	-24.1	-41.4	48.1	239	0.0	0.583	1.0
262	236	240	0.0	0.566	1.0	44.2	-5.5	-40.9	41.3	262	0.0	1.0	0.97	56.6	-26.8	-39.8	48.1	236	0.0	0.567	1.0	0.0	1.0	0.937	1.0	55.5	-23.2	-41.4	47.6	240	0.0	0.567	1.0
263	237	241	0.0	0.55	1.0	43.6	-4.4	-40.9	41.1	263	0.0	1.0	0.982	56.7	-26.2	-40.5	48.4	237	0.0	0.55	1.0	0.0	1.0	0.911	1.0	54.9	-22.3	-41.4	47.1	241	0.0	0.55	1.0
265	238	242	0.0	0.533	1.0	43.0	-3.3	-40.8	41.0	265	0.0	1.0	0.994	56.8	-25.7	-41.1	48.6	238	0.0	0.533	1.0	0.0	1.0	0.885	1.0	54.4	-21.4	-41.3	46.7	242	0.0	0.533	1.0
266	239	243	0.0	0.516	1.0	42.3	-2.3	-40.7	40.8	266	0.0	0.985	1.0	56.5	-24.9	-41.4	48.5	239	0.0	0.517	1.0	0.0	1.0	0.864	1.0	53.9	-20.6	-41.3	46.3	243	0.0	0.517	1.0
268	240	244	0.0	0.5	1.0	41.7	-1.2	-40.6	40.6	268	0.0	0.956	1.0	55.9	-23.9	-41.4	48.0	240	0.0	0.5	1.0	0.0	1.0	0.847	1.0	53.3	-19.8	-41.3	45.9	244	0.0	0.5	1.0
269	241	245	0.0	0.483	1.0	41.1	-0.2	-40.6	40.6	269	0.0	0.928	1.0	55.3	-22.9	-41.4	47.4	241	0.0	0.483	1.0	0.0	1.0	0.829	1.0	52.8	-19.0	-41.3	45.6	245	0.0	0.483	1.0
271	242	246	0.0	0.466	1.0	40.5	0.7	-40.6	40.6	271	0.0	0.9	1.0	54.7	-21.9	-41.3	46.9	242	0.0	0.467	1.0	0.0	1.0	0.811	1.0	52.3	-18.1	-41.2	45.2	246	0.0	0.467	1.0
272	243	247	0.0	0.45	1.0	39.9	1.7	-40.6	40.6	272	0.0	0.873	1.0	54.1	-21.0	-41.3	46.4	243	0.0</														

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours RYGBM_e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dd361Mi}$ (x=LabCh)	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$LAB^*_{dex361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$
289	255	258	0.0	0.25 1.0	32.8	14.3	-40.2 42.7	289	0.0	0.25 1.0	0.0	0.25 1.0
290	256	258	0.0	0.233 1.0	32.2	15.3	-40.3 43.1	290	0.0	0.233 1.0	0.0	0.233 1.0
292	257	259	0.0	0.216 1.0	31.7	16.4	-40.3 43.6	292	0.0	0.217 1.0	0.0	0.217 1.0
293	258	260	0.0	0.2 1.0	31.1	17.5	-40.4 44.0	293	0.0	0.2 1.0	0.0	0.2 1.0
294	259	261	0.0	0.183 1.0	30.6	18.5	-40.4 44.5	294	0.0	0.183 1.0	0.0	0.183 1.0
295	260	262	0.0	0.166 1.0	30.0	19.6	-40.4 44.9	295	0.0	0.167 1.0	0.0	0.167 1.0
297	261	263	0.0	0.15 1.0	29.5	20.7	-40.4 45.4	297	0.0	0.15 1.0	0.0	0.15 1.0
298	262	264	0.0	0.133 1.0	28.9	21.8	-40.3 45.8	298	0.0	0.133 1.0	0.0	0.133 1.0
299	263	265	0.0	0.116 1.0	28.4	22.8	-40.3 46.3	299	0.0	0.117 1.0	0.0	0.117 1.0
300	264	266	0.0	0.1 1.0	27.9	23.8	-40.4 46.9	300	0.0	0.1 1.0	0.0	0.1 1.0
301	265	267	0.0	0.083 1.0	27.4	24.7	-40.4 47.4	301	0.0	0.083 1.0	0.0	0.083 1.0
302	266	268	0.0	0.066 1.0	26.9	25.7	-40.4 47.9	302	0.0	0.067 1.0	0.0	0.067 1.0
303	267	269	0.0	0.049 1.0	26.5	26.6	-40.5 48.4	303	0.0	0.05 1.0	0.0	0.05 1.0
304	268	269	0.0	0.033 1.0	26.0	27.6	-40.4 49.0	304	0.0	0.033 1.0	0.0	0.033 1.0
305	269	270	0.0	0.016 1.0	25.5	28.6	-40.4 49.5	305	0.0	0.017 1.0	0.0	0.017 1.0
306	270	271	0.0	0.0 1.0	25.0	29.5	-40.4 50.0	306	0.0	0.0 1.0	0.0	0.0 1.0
307	271	272	0.016 0.0	1.0	25.4	30.4	-39.9 50.2	307	0.0	0.017 0.0	1.0	0.017 0.0
308	272	273	0.033 0.0	1.0	25.8	31.3	-39.4 50.4	308	0.0	0.033 0.0	1.0	0.033 0.0
309	273	274	0.05 0.0	1.0	26.2	32.2	-38.9 50.5	309	0.0	0.05 0.0	1.0	0.05 0.0
310	274	275	0.066 0.0	1.0	26.5	33.1	-38.4 50.7	310	0.0	0.067 0.0	1.0	0.067 0.0
311	275	276	0.083 0.0	1.0	26.9	33.9	-37.8 50.8	311	0.0	0.083 0.0	1.0	0.083 0.0
313	276	277	0.1 0.0	1.0	27.3	34.8	-37.3 51.0	313	0.0	0.1 0.0	1.0	0.1 0.0
314	277	278	0.116 0.0	1.0	27.7	35.6	-36.7 51.1	314	0.0	0.117 0.0	1.0	0.117 0.0
315	278	279	0.133 0.0	1.0	27.9	36.4	-36.2 51.3	315	0.0	0.133 0.0	1.0	0.133 0.0
316	279	280	0.15 0.0	1.0	28.1	37.2	-35.7 51.6	316	0.0	0.15 0.0	1.0	0.15 0.0
317	280	281	0.166 0.0	1.0	28.2	38.0	-35.2 51.9	317	0.0	0.167 0.0	1.0	0.167 0.0
318	281	282	0.183 0.0	1.0	28.3	38.8	-34.7 52.1	318	0.0	0.183 0.0	1.0	0.183 0.0
319	282	283	0.2 0.0	1.0	28.5	39.6	-34.2 52.4	319	0.0	0.2 0.0	1.0	0.2 0.0
320	283	284	0.216 0.0	1.0	28.6	40.4	-33.7 52.6	320	0.0	0.217 0.0	1.0	0.217 0.0
321	284	285	0.233 0.0	1.0	28.7	41.2	-33.1 52.9	321	0.0	0.233 0.0	1.0	0.233 0.0
322	285	285	0.25 0.0	1.0	28.8	41.9	-32.5 53.1	322	0.0	0.25 0.0	1.0	0.25 0.0
323	286	286	0.266 0.0	1.0	29.4	43.3	-31.8 53.8	323	0.0	0.267 0.0	1.0	0.267 0.0
325	287	287	0.283 0.0	1.0	29.9	44.7	-31.1 54.4	325	0.0	0.283 0.0	1.0	0.283 0.0
326	288	288	0.3 0.0	1.0	30.4	46.0	-30.3 55.1	326	0.0	0.3 0.0	1.0	0.3 0.0
328	289	289	0.316 0.0	1.0	30.9	47.3	-29.4 55.7	328	0.0	0.317 0.0	1.0	0.317 0.0
329	290	290	0.333 0.0	1.0	31.4	48.6	-28.5 56.4	329	0.0	0.333 0.0	1.0	0.333 0.0
331	291	291	0.35 0.0	1.0	32.0	49.9	-27.5 57.0	331	0.0	0.35 0.0	1.0	0.35 0.0
332	292	292	0.366 0.0	1.0	32.5	51.2	-26.5 57.7	332	0.0	0.367 0.0	1.0	0.367 0.0
333	293	293	0.383 0.0	1.0	32.9	52.3	-25.7 58.3	333	0.0	0.383 0.0	1.0	0.383 0.0
334	294	294	0.4 0.0	1.0	33.3	53.2	-25.0 58.8	334	0.0	0.4 0.0	1.0	0.4 0.0
335	295	295	0.416 0.0	1.0	33.7	54.1	-24.4 59.4	335	0.0	0.417 0.0	1.0	0.417 0.0
336	296	296	0.433 0.0	1.0	34.0	55.0	-23.7 59.9	336	0.0	0.433 0.0	1.0	0.433 0.0
337	297	297	0.45 0.0	1.0	34.4	55.9	-23.0 60.5	337	0.0	0.45 0.0	1.0	0.45 0.0
338	298	298	0.466 0.0	1.0	34.8	56.8	-22.2 61.0	338	0.0	0.467 0.0	1.0	0.467 0.0
339	299	299	0.483 0.0	1.0	35.2	57.7	-21.5 61.6	339	0.0	0.483 0.0	1.0	0.483 0.0
340	300	300	0.5 0.0	1.0	35.6	58.6	-20.7 62.1	340	0.0	0.5 0.0	1.0	0.5 0.0

2-0131431-L0 QS180-71 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

salida: Offset standard print; separation cmy0*, D65, página 15/33

gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
círculo de tono, 48 pasos; $rgb-LabCh^*$ mesas

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmy0_e$

TUB matrícula: 20130201-QS18/QS18L0NP.PDF /.PS
aplicación para la medida salida en la impresión offset, separación cmy0 (CMY0)

TUB material: code=rha4ta

2-0131531-L0 QS180-71 LAB*la0, YN=0%, XYZNw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0 salida: Offset standard print; separation cmy0*, D65, página 16/31

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmy0_e$

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours RYGBM_e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^* dd361M	LAB^* ddx361Mi (x=LabCh)	rgb^* ds361Mi	LAB^* dsx361Mi (x=LabCh)	rgb^* dd361Mi	rgb^* de361Mi	LAB^* dex361Mi (x=LabCh)	rgb^* dd361Mi	rgb^* ds361Mi	rgb^* de361Mi
366	345	342	1.0 0.0 0.75	45.9 77.1 8.6 77.6 366	0.576 0.0 1.0	37.1 62.9 -16.7 65.1 345	1.0 0.0 0.75	0.539 0.0 1.0	36.4 60.8 -18.7 63.7 342	1.0 0.0 0.75		
367	346	343	1.0 0.0 0.733	45.9 77.0 9.4 77.5 367	0.593 0.0 1.0	37.5 63.8 -15.8 65.7 346	1.0 0.0 0.733	0.555 0.0 1.0	36.7 61.7 -17.9 64.3 343	1.0 0.0 0.733		
367	347	344	1.0 0.0 0.716	45.9 76.8 10.3 77.5 367	0.61 0.0 1.0	37.8 64.7 -14.8 66.4 347	1.0 0.0 0.717	0.571 0.0 1.0	37.0 62.6 -17.0 64.9 344	1.0 0.0 0.717		
368	348	345	1.0 0.0 0.7	45.9 76.6 11.1 77.4 368	0.627 0.0 1.0	38.2 65.6 -13.8 67.1 348	1.0 0.0 0.7	0.587 0.0 1.0	37.3 63.5 -16.1 65.5 345	1.0 0.0 0.7		
368	349	346	1.0 0.0 0.683	45.9 76.4 11.9 77.3 368	0.654 0.0 1.0	39.0 66.8 -12.9 68.1 349	1.0 0.0 0.683	0.603 0.0 1.0	37.7 64.3 -15.2 66.1 346	1.0 0.0 0.683		
369	350	347	1.0 0.0 0.666	45.9 76.2 12.8 77.2 369	0.681 0.0 1.0	39.8 68.0 -11.9 69.1 350	1.0 0.0 0.667	0.619 0.0 1.0	38.0 65.2 -14.3 66.7 347	1.0 0.0 0.667		
370	351	348	1.0 0.0 0.65	46.0 75.9 13.6 77.2 370	0.708 0.0 1.0	40.6 69.2 -10.9 70.1 351	1.0 0.0 0.65	0.641 0.0 1.0	38.6 66.2 -13.4 67.6 348	1.0 0.0 0.65		
370	352	349	1.0 0.0 0.633	46.0 75.7 14.4 77.1 370	0.735 0.0 1.0	41.4 70.4 -9.8 71.1 352	1.0 0.0 0.633	0.667 0.0 1.0	39.3 67.4 -12.4 68.5 349	1.0 0.0 0.633		
371	353	350	1.0 0.0 0.616	46.0 75.5 15.2 77.1 371	0.765 0.0 1.0	42.1 71.6 -8.7 72.1 353	1.0 0.0 0.617	0.692 0.0 1.0	40.1 68.5 -11.5 69.5 350	1.0 0.0 0.617		
372	354	351	1.0 0.0 0.6	45.9 75.4 16.1 77.1 372	0.8 0.0 1.0	42.8 72.7 -7.5 73.1 354	1.0 0.0 0.6	0.717 0.0 1.0	40.9 69.6 -10.5 70.4 351	1.0 0.0 0.6		
372	355	352	1.0 0.0 0.583	45.9 75.2 16.9 77.1 372	0.835 0.0 1.0	43.5 73.9 -6.4 74.2 355	1.0 0.0 0.583	0.743 0.0 1.0	41.6 70.7 -9.5 71.4 352	1.0 0.0 0.583		
373	356	353	1.0 0.0 0.566	45.9 75.0 17.8 77.1 373	0.87 0.0 1.0	44.2 75.0 -5.1 75.2 356	1.0 0.0 0.567	0.774 0.0 1.0	42.3 71.9 -8.4 72.4 353	1.0 0.0 0.567		
374	357	354	1.0 0.0 0.55	45.9 74.8 18.6 77.1 374	0.904 0.0 1.0	44.7 76.2 -3.9 76.3 357	1.0 0.0 0.55	0.807 0.0 1.0	42.9 73.0 -7.3 73.3 354	1.0 0.0 0.55		
374	358	355	1.0 0.0 0.533	45.9 74.6 19.5 77.1 374	0.938 0.0 1.0	45.2 77.3 -2.6 77.3 358	1.0 0.0 0.533	0.84 0.0 1.0	43.6 74.1 -6.2 74.3 355	1.0 0.0 0.533		
375	359	356	1.0 0.0 0.516	45.9 74.4 20.3 77.1 375	0.971 0.0 1.0	45.7 78.4 -1.3 78.4 359	1.0 0.0 0.517	0.873 0.0 1.0	44.2 75.1 -5.0 75.3 356	1.0 0.0 0.517		
375	360	352	1.0 0.0 0.5	45.9 74.2 21.1 77.1 375	1.0 0.0 0.994	46.1 79.3 0.0 79.3 360	1.0 0.0 0.5	0.736 0.0 1.0	41.4 70.5 -9.7 71.1 352	1.0 0.0 0.5		
376	361	353	1.0 0.0 0.483	45.8 74.1 22.1 77.3 376	1.0 0.0 0.955	46.1 79.0 1.4 79.0 361	1.0 0.0 0.483	0.771 0.0 1.0	42.2 71.8 -8.5 72.3 353	1.0 0.0 0.483		
377	362	354	1.0 0.0 0.466	45.8 73.9 23.1 77.4 377	1.0 0.0 0.916	46.0 78.6 2.7 78.7 362	1.0 0.0 0.467	0.81 0.0 1.0	43.0 73.1 -7.2 73.4 354	1.0 0.0 0.467		
378	363	355	1.0 0.0 0.45	45.8 73.8 24.0 77.6 378	1.0 0.0 0.876	46.0 78.3 4.1 78.4 363	1.0 0.0 0.45	0.849 0.0 1.0	43.8 74.4 -5.9 74.6 355	1.0 0.0 0.45		
378	364	356	1.0 0.0 0.433	45.8 73.6 25.0 77.7 378	1.0 0.0 0.839	46.0 78.0 5.5 78.2 364	1.0 0.0 0.433	0.887 0.0 1.0	44.4 75.6 -4.5 75.8 356	1.0 0.0 0.433		
379	365	357	1.0 0.0 0.416	45.8 73.4 25.9 77.9 379	1.0 0.0 0.802	46.0 77.7 6.8 78.0 365	1.0 0.0 0.417	0.925 0.0 1.0	45.0 76.9 -3.1 77.0 357	1.0 0.0 0.417		
380	366	358	1.0 0.0 0.4	45.8 73.2 26.9 78.0 380	1.0 0.0 0.765	46.0 77.3 8.1 77.8 366	1.0 0.0 0.4	0.963 0.0 1.0	45.6 78.1 -1.6 78.1 358	1.0 0.0 0.4		
380	367	359	1.0 0.0 0.383	45.8 73.0 27.8 78.2 380	1.0 0.0 0.734	46.0 77.0 9.5 77.6 367	1.0 0.0 0.383	1.0 0.0 1.0	46.1 79.3 -0.1 79.3 359	1.0 0.0 0.383		
381	368	360	1.0 0.0 0.366	45.8 72.9 28.7 78.4 381	1.0 0.0 0.708	46.0 76.7 10.8 77.5 368	1.0 0.0 0.367	1.0 0.0 0.956	46.1 79.0 1.3 79.0 360	1.0 0.0 0.367		
382	369	362	1.0 0.0 0.35	45.8 72.8 29.6 78.6 382	1.0 0.0 0.681	46.0 76.4 12.1 77.4 369	1.0 0.0 0.35	1.0 0.0 0.912	46.0 78.6 2.9 78.7 362	1.0 0.0 0.35		
382	370	363	1.0 0.0 0.333	45.7 72.7 30.4 78.8 382	1.0 0.0 0.655	46.0 76.1 13.4 77.2 370	1.0 0.0 0.333	1.0 0.0 0.869	46.0 78.2 4.4 78.3 363	1.0 0.0 0.333		
383	371	364	1.0 0.0 0.316	45.7 72.6 31.2 79.1 383	1.0 0.0 0.628	46.0 75.7 14.7 77.1 371	1.0 0.0 0.317	1.0 0.0 0.828	46.0 77.9 5.9 78.1 364	1.0 0.0 0.317		
383	372	365	1.0 0.0 0.3	45.7 72.5 32.1 79.3 383	1.0 0.0 0.602	46.0 75.4 16.0 77.1 372	1.0 0.0 0.3	1.0 0.0 0.786	46.0 77.5 7.4 77.9 365	1.0 0.0 0.3		
384	373	366	1.0 0.0 0.283	45.6 72.4 32.9 79.6 384	1.0 0.0 0.576	46.0 75.2 17.4 77.1 373	1.0 0.0 0.283	1.0 0.0 0.746	46.0 77.1 8.8 77.7 366	1.0 0.0 0.283		
385	374	367	1.0 0.0 0.266	45.6 72.3 33.8 79.8 385	1.0 0.0 0.55	45.9 74.9 18.7 77.2 374	1.0 0.0 0.267	1.0 0.0 0.717	46.0 76.8 10.3 77.5 367	1.0 0.0 0.267		
385	375	368	1.0 0.0 0.25	45.6 72.1 34.6 80.0 385	1.0 0.0 0.524	45.9 74.5 20.0 77.2 375	1.0 0.0 0.25	1.0 0.0 0.687	46.0 76.5 11.8 77.4 368	1.0 0.0 0.25		
386	376	369	1.0 0.0 0.233	45.6 72.1 35.3 80.3 386	1.0 0.0 0.498	45.9 74.2 21.3 77.2 376	1.0 0.0 0.233	1.0 0.0 0.658	46.0 76.1 13.3 77.2 369	1.0 0.0 0.233		
386	377	370	1.0 0.0 0.216	45.6 72.0 36.1 80.5 386	1.0 0.0 0.475	45.9 74.0 22.6 77.4 377	1.0 0.0 0.217	1.0 0.0 0.628	46.0 75.7 14.7 77.1 370	1.0 0.0 0.217		
387	378	372	1.0 0.0 0.2	45.6 71.9 36.8 80.8 387	1.0 0.0 0.451	45.9 73.8 24.0 77.6 378	1.0 0.0 0.2	1.0 0.0 0.599	46.0 75.4 16.2 77.1 372	1.0 0.0 0.2		
387	379	373	1.0 0.0 0.183	45.5 71.8 37.5 81.0 387	1.0 0.0 0.428	45.9 73.6 25.3 77.8 379	1.0 0.0 0.183	1.0 0.0 0.57	46.0 75.1 17.6 77.1 373	1.0 0.0 0.183		
388	380	374	1.0 0.0 0.166	45.5 71.7 38.2 81.3 388	1.0 0.0 0.404	45.9 73.3 26.7 78.0 380	1.0 0.0 0.167	1.0 0.0 0.541	45.9 74.8 19.1 77.2 374	1.0 0.0 0.167		
388	381	375	1.0 0.0 0.15	45.5 71.6 39.0 81.5 388	1.0 0.0 0.38	45.8 73.1 28.0 78.3 381	1.0 0.0 0.15	1.0 0.0 0.512	45.9 74.4 20.6 77.2 375	1.0 0.0 0.15		
389	382	376	1.0 0.0 0.133	45.5 71.5 39.7 81.8 389	1.0 0.0 0.353	45.8 72.9 29.4 78.6 382	1.0 0.0 0.133	1.0 0.0 0.485	45.9 74.1 22.0 77.3 376	1.0 0.0 0.133		
389	383	377	1.0 0.0 0.116	45.5 71.4 40.4 82.1 389	1.0 0.0 0.325	45.8 72.7 30.9 79.0 383	1.0 0.0 0.117	1.0 0.0 0.459	45.9 73.9 23.6 77.6 377	1.0 0.0 0.117		
389	384	378	1.0 0.0 0.1	45.5 71.3 41.0 82.3 389	1.0 0.0 0.297	45.7 72.5 32.3 79.4 384	1.0 0.0 0.1	1.0 0.0 0.433	45.9 73.6 25.1 77.8 378	1.0 0.0 0.1		
390	385	379	1.0 0.0 0.083	45.5 71.3 41.6 82.6 390	1.0 0.0 0.268	45.7 72.3 33.7 79.8 385	1.0 0.0 0.083	1.0 0.0 0.406	45.9 73.4 26.6 78.0 379	1.0 0.0 0.083		
390	386	381	1.0 0.0 0.066	45.5 71.2 42.3 82.8 390	1.0 0.0 0.238	45.6 72.1 35.2 80.3 386	1.0 0.0 0.067	1.0 0.0 0.38	45.8 73.1 28.1 78.3 381	1.0 0.0 0.067		
391	387	382	1.0 0.0 0.049	45.5 71.1 42.9 83.1 391	1.0 0.0 0.204	45.6 72.0 36.7 80.8 387	1.0 0.0 0.05	1.0 0.0 0.349	45.8 72.9 29.6 78.7 382	1.0 0.0 0.05		
391	388	383	1.0 0.0 0.033	45.4 71.1 43.5 83.4 391	1.0 0.0 0.17	45.6 71.8 38.2 81.3 388	1.0 0.0 0.033	1.0 0.0 0.318	45.8 72.7 31.2 79.1 383	1.0 0.0 0.033		
391	389	384	1.0 0.0 0.016	45.4 71.0 44.2 83.6 391	1.0 0.0 0.135	45.6 71.6 39.7 81.8 389	1.0 0.0 0.017	1.0 0.0 0.286	45.7 72.5 32.8 79.6 384	1.0 0.0 0.017		
392	390	385	1.0 0.0 0.0	45.4 70.9 44.8 83.9 392	1.0 0.0 0.096	45.5 71.4 41.2 82.4 390	1.0 0.0 0.0	1.0 0.0 0.255	45.7 72.2 34.4 80.0 385	1.0 0.0 0.0		

2-0131631-L0 QS180-71 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

salida: Offset standard print; separation cmy0*, D65, página 17/33

gráfico TUB-QS18; código de tono: $H^*_e=R50Y_e$
círculo de tono, 48 pasos; $rgb-LabCh^*$ mesas

entrada: $rgb/cmyk \rightarrow rgb_e$
salida: transfiera a $cmy0_e$

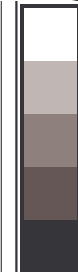
2-0131631-F0

TUB matrícula: 20130201-QS18/QS18L0NP.PDF /.PS
aplicación para la medida salida en la impresión offset, separación cmy0 (CMY0)

TUB material: code=rha4ta

TUB matrícula: 20130201-QS18/QS18L0NP.PDF /.PS TUB material: code=rha4ta

aplicación para la medida salida en la impresión offset, separación cmy0 (CMY0)



C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

C

Y

M

O

L

V

vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS18/QS18.HTM>
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

entrada: rgb/cmyk -> rgbe
salida: transfiera a cmy0e

gráfico TUB-QS18; código de tono: H*=R50Ye
colores y diferencia en color, ΔE*

QS180-7N, 18/33-F

2-0131731-F0

2-0131731-F0

2-0131731-F0

2-0131731-F0

2-0131731-F0

2-0131731-F0

2-0131731-F0

2-0131731-F0

2-0131731-F0



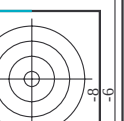
http://130.149.60.45/~farbmetrik/QS18/QS18L0NP.PDF /.PS; salida de transferencia
N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 19/33

n/f	HfC*Fe	rgb_Fe	icr_Fe	hsa_Fa	rgb_Fe	LabCH*Fe	DF*Fe	hsa_Me	rgb_Me	LabCH*Me	
0/648	R25Y_100_100e	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4
1/666	R50Y_100_100e	1.0	0.25	1.0	0.166	0.0	1.0	0.166	0.0	0.0	80.0
2/684	R50Y_100_100e	1.0	0.5	1.0	0.332	0.0	1.0	0.332	0.0	0.0	80.0
3/702	R75Y_100_100e	1.0	0.75	1.0	0.500	0.0	1.0	0.500	0.0	0.0	80.0
4/720	Y00C_100_100e	1.0	1.0	1.0	0.878	0.0	1.0	0.878	0.0	0.0	80.0
5/738	Y25C_100_100e	0.75	1.0	1.0	0.605	0.0	1.0	0.605	0.0	0.0	80.0
6/756	Y50C_100_100e	0.5	1.0	1.0	0.332	0.0	1.0	0.332	0.0	0.0	80.0
7/774	Y75C_100_100e	0.25	1.0	1.0	0.166	0.0	1.0	0.166	0.0	0.0	80.0
8/792	G00B_100_100e	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
9/792	G00B_100_100e	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
10/76	G25B_100_100e	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
11/80	G50B_100_100e	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
12/84	G75B_100_100e	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
13/8	B00M_100_100e	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
14/332	B25R_100_100e	0.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
15/652	B50R_100_100e	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
16/652	B75R_100_100e	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
17/648	R00Y_100_100e	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
18/608	R00Y_100_050e	1.0	0.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	80.0
19/768	R50Y_100_050e	1.0	0.75	1.0	0.605	0.0	1.0	0.605	0.0	0.0	80.0
20/724	Y00C_100_050e	1.0	1.0	1.0	0.878	0.0	1.0	0.878	0.0	0.0	80.0
21/560	Y25C_100_050e	0.75	1.0	1.0	0.605	0.0	1.0	0.605	0.0	0.0	80.0
22/400	G00B_100_050e	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
23/468	B00R_100_050e	0.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
24/688	B50R_100_050e	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
25/692	B75R_100_050e	1.0	0.75	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
26/688	R00Y_100_050e	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0
27/506	R00Y_075_050e	0.75	0.25	0.75	0.5	0.5	0.5	0.5	0.5	0.5	25.4
28/524	R50Y_075_050e	0.75	0.5	0.75	0.5	0.5	0.5	0.5	0.5	0.5	25.4
29/542	Y00C_075_050e	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.5	25.4
30/380	Y50C_075_050e	0.25	0.75	0.25	0.75	0.5	0.5	0.5	0.5	0.5	25.4
31/218	G00B_075_050e	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4
32/222	G00B_075_050e	0.25	0.75	0.25	0.75	0.5	0.5	0.5	0.5	0.5	25.4
33/186	B00R_075_050e	0.25	0.75	0.25	0.75	0.5	0.5	0.5	0.5	0.5	25.4
34/510	B50R_075_050e	0.75	0.25	0.75	0.5	0.5	0.5	0.5	0.5	0.5	25.4
35/506	R00Y_075_050e	0.75	0.25	0.75	0.5	0.5	0.5	0.5	0.5	0.5	25.4
36/324	R00Y_050_050e	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	25.4
37/342	R50Y_050_050e	0.5	0.25	0.5	0.25	0.0	0.0	0.0	0.0	0.0	25.4
38/360	Y00C_050_050e	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	25.4
39/198	Y50C_050_050e	0.25	0.5	0.25	0.5	0.0	0.0	0.0	0.0	0.0	25.4
40/36	G00B_050_050e	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4
41/40	G50B_050_050e	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4
42/4	B00R_050_050e	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4
43/328	B50R_050_050e	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	25.4
44/324	R00Y_050_050e	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	25.4
45/0	NW_000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46/91	NW_013e	0.125	0.125	0.125	0.125	0.0	0.0	0.0	0.0	0.0	0.0
47/182	NW_025e	0.25	0.25	0.25	0.25	0.0	0.0	0.0	0.0	0.0	0.0
48/273	NW_038e	0.375	0.375	0.375	0.375	0.0	0.0	0.0	0.0	0.0	0.0
49/364	NW_050e	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
50/455	NW_063e	0.625	0.625	0.625	0.625	0.0	0.0	0.0	0.0	0.0	0.0
51/546	NW_075e	0.75	0.75	0.75	0.75	0.0	0.0	0.0	0.0	0.0	0.0
52/637	NW_088e	0.875	0.875	0.875	0.875	0.0	0.0	0.0	0.0	0.0	0.0
53/728	NW_100e	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

delta E* = 13.3

entrada: rgb/cmyk -> rgbe
salida: transfiera a cmy0e

gráfico TUB-QS18; código de tono: H*e=R50Ye
colores y diferencia en color, ΔE*



TUB matrícula: 20130201-QS18/QS18LONP.PDF /.PS TUB material: code=rha4ta
aplicación para la medida salida en la impresión offset, separación cmy0 (CMY0)

http://130.149.60.45/~farbmetrik/QS18/QS18LONP.PDF /.PS; salida de transferencia
N: ninguna 3D-linealización (OL) en archivo (F) o PS-startup (S), página 23/33

n	HVC*Fe	rgb*Fe	icL*Fe	hsa*Fe	rgb*Fe	LabCH*Fe	DF*Fe	hsm*Fe	rgb*Fe	LabCH*Fe	DF*Fe	hsm*Fe	rgb*Fe	LabCH*Fe	DF*Fe	hsm*Fe	
243	R0Y0_037_037a	0.375 0.0 0.125	0.375 0.375 0.187	390 371	0.375 0.0 0.31	32.3 27.0	25.4	30.0	12.9	36.2 17.7	40.3	26.1	10.3	375	34.4	80.0	25.4
244	R1Y0_037_037a	0.375 0.0 0.125	0.375 0.375 0.187	371 349	0.375 0.0 0.095	32.4 27.0	29.2	29.2	4.3	36.7 17.7	40.3	19.8	13.4	339	45.6	72.2	45.6
245	B6SR_037_037a	0.375 0.0 0.375	0.375 0.375 0.187	349 340	0.226 0.0 0.375	29.3 24.1	39.8	8.1	39.8	31.7 39.8	8.1	39.8	31.7	39.8	31.7	39.8	8.1
246	B5BR_037_037a	0.375 0.0 0.375	0.375 0.375 0.187	349 340	0.12 0.0 0.375	26.9 24.1	39.8	8.1	39.8	31.7 39.8	8.1	39.8	31.7	39.8	31.7	39.8	8.1
247	B3BR_050_050a	0.375 0.0 0.5	0.5 0.5 0.25	316 307	0.067 0.0 0.5	26.1 18.2	18.0	25.7	10.9	32.4 42.9	35.5	29.3	27.0	0.008	0.0	1.0	1.0
248	B2SR_062_062a	0.375 0.0 0.625	0.625 0.312 0.307	307 295	0.0095 0.0 0.625	24.9 18.7	25.1	31.3	306.8	0.375 0.0 0.625	32.4 45.1	35.5	29.3	0.008	0.0	1.0	1.0
249	B2SR_075_075a	0.375 0.0 0.625	0.625 0.375 0.300	295 290	0.079 0.75 0.300	27.1 17.6	25.1	31.3	306.8	0.375 0.0 0.625	32.4 45.1	35.5	29.3	0.008	0.0	1.0	1.0
250	B2SR_075_075a	0.375 0.0 0.625	0.625 0.375 0.300	295 290	0.079 0.75 0.300	27.1 17.6	25.1	31.3	306.8	0.375 0.0 0.625	32.4 45.1	35.5	29.3	0.008	0.0	1.0	1.0
251	B1R_100_100a	0.375 0.0 1.0	1.0 1.0 0.5	292 290	0.0 0.21 1.0	31.5 16.8	20.7	28.5	46.6	0.375 0.125 0.125	35.3 29.6	10.7	31.9	0.024	0.0	1.0	1.0
252	R3Y1_037_037a	0.375 0.125 0.125	0.375 0.375 0.187	49 71	0.375 0.092 0.0	35.3 18.6	20.7	28.5	46.6	0.375 0.125 0.125	35.3 29.6	10.7	31.9	0.024	0.0	1.0	1.0
253	R0Y0_037_025a	0.375 0.125 0.125	0.375 0.375 0.187	390 371	0.375 0.25 0.25	38.6 18.0	8.6	20.7	28.5	0.375 0.125 0.125	35.3 29.6	10.7	31.9	0.024	0.0	1.0	1.0
254	R0Y0_037_025a	0.375 0.125 0.125	0.375 0.375 0.187	390 371	0.375 0.25 0.25	38.6 18.0	8.6	20.7	28.5	0.375 0.125 0.125	35.3 29.6	10.7	31.9	0.024	0.0	1.0	1.0
255	B5BR_037_025a	0.375 0.125 0.375	0.375 0.375 0.187	330 300	0.205 0.124 0.375	34.9 11.9	7.2	13.9	328.6	0.375 0.125 0.375	35.3 29.6	10.7	31.9	0.024	0.0	1.0	1.0
256	B3BR_050_037a	0.375 0.125 0.5	0.5 0.375 0.312	311 310	0.149 0.124 0.5	34.0 12.3	14.4	19.0	310.5	0.375 0.125 0.5	36.2 33.7	22.9	28.9	0.064	0.0	1.0	1.0
257	B2SR_062_050a	0.375 0.125 0.625	0.625 0.5 0.375	300 293	0.125 0.177 0.625	35.1 11.7	20.1	23.3	390.3	0.375 0.125 0.625	35.3 29.6	10.7	31.9	0.024	0.0	1.0	1.0
258	B1SR_075_062a	0.375 0.125 0.75	0.75 0.625 0.437	293 289	0.125 0.248 0.75	37.4 11.0	25.2	27.5	293.5	0.375 0.125 0.75	36.6 37.1	15.7	40.3	0.064	0.0	1.0	1.0
259	B1SR_087_075a	0.375 0.125 0.875	0.875 0.75 0.5	289 289	0.125 0.37 1.0	39.6 10.8	30.1	32.0	289.7	0.375 0.125 0.875	36.9 39.8	22.4	45.2	0.064	0.0	1.0	1.0
260	B1SR_100_087a	0.375 0.125 1.0	1.0 0.875 0.562	286 286	0.125 0.37 1.0	41.6 10.7	35.3	36.9	286.9	0.375 0.125 1.0	38.8 42.2	26.6	49.9	0.064	0.0	1.0	1.0
261	R6Y1_037_037a	0.375 0.25 0.0	0.375 0.375 0.187	71 60	0.375 0.224 0.124	40.2 9.2	26.9	28.9	28.1	0.375 0.25 0.0	39.9 16.0	21.7	31.9	0.024	0.0	1.0	1.0
262	R6Y1_037_037a	0.375 0.25 0.0	0.375 0.375 0.187	71 60	0.375 0.224 0.124	40.2 9.2	26.9	28.9	28.1	0.375 0.25 0.0	39.9 16.0	21.7	31.9	0.024	0.0	1.0	1.0
263	R0Y0_037_012a	0.375 0.25 0.125	0.375 0.375 0.187	390 371	0.375 0.249 0.281	44.8 9.0	4.3	10.0	25.4	0.375 0.25 0.125	39.9 16.0	21.7	31.9	0.024	0.0	1.0	1.0
264	R0Y0_037_012a	0.375 0.25 0.125	0.375 0.375 0.187	390 371	0.375 0.249 0.281	44.8 9.0	4.3	10.0	25.4	0.375 0.25 0.125	39.9 16.0	21.7	31.9	0.024	0.0	1.0	1.0
265	B2SR_090_012a	0.375 0.25 0.375	0.375 0.375 0.187	300 293	0.29 0.249 0.281	43.1 5.4	15.0	16.0	289.7	0.375 0.25 0.375	40.7 19.7	8.1	21.9	0.024	0.0	1.0	1.0
266	B2SR_090_012a	0.375 0.25 0.375	0.375 0.375 0.187	300 293	0.29 0.249 0.281	43.1 5.4	15.0	16.0	289.7	0.375 0.25 0.375	40.7 19.7	8.1	21.9	0.024	0.0	1.0	1.0
267	B1R_062_037a	0.375 0.25 0.625	0.625 0.375 0.437	289 289	0.25 0.343 0.625	45.3 5.4	15.0	16.0	289.7	0.375 0.25 0.625	41.6 32.9	7.1	25.9	0.024	0.0	1.0	1.0
268	B1R_075_050a	0.375 0.25 0.75	0.75 0.5 0.5	284 284	0.25 0.401 0.75	47.3 5.4	15.0	20.9	285.0	0.375 0.25 0.75	42.1 26.2	14.0	29.7	0.024	0.0	1.0	1.0
269	B0R_100_062a	0.375 0.25 1.0	1.0 0.875 0.562	279 279	0.25 0.459 0.875	49.4 5.4	30.2	33.9	289.2	0.375 0.25 1.0	43.1 37.3	20.7	40.7	0.024	0.0	1.0	1.0
270	B0R_100_062a	0.375 0.25 1.0	1.0 0.875 0.562	279 279	0.25 0.459 0.875	49.4 5.4	30.2	33.9	289.2	0.375 0.25 1.0	43.1 37.3	20.7	40.7	0.024	0.0	1.0	1.0
271	Y0C_037_037a	0.375 0.375 0.0	0.375 0.375 0.187	90 90	0.375 0.344 0.124	48.0 -0.9	22.6	22.6	92.3	0.375 0.375 0.0	44.1 6.7	36.3	27.2	0.024	0.0	1.0	1.0
272	Y0C_037_037a	0.375 0.375 0.0	0.375 0.375 0.187	90 90	0.375 0.344 0.124	48.0 -0.9	22.6	22.6	92.3	0.375 0.375 0.0	44.1 6.7	36.3	27.2	0.024	0.0	1.0	1.0
273	NW_037a	0.375 0.375 0.375	0.375 0.375 0.187	360 360	0.375 0.359 0.249	49.5 -0.4	11.3	11.3	0.0	0.375 0.375 0.375	44.7 8.5	18.5	20.4	0.024	0.0	1.0	1.0
274	B0R_050_012a	0.375 0.375 0.5	0.5 0.125 0.437	270 270	0.375 0.432 0.5	53.0 0.1	5.0	10.1	271.7	0.375 0.375 0.5	46.1 12.2	21.1	15.3	0.024	0.0	1.0	1.0
275	B0R_062_025a	0.375 0.375 0.625	0.625 0.25 0.5	270 270	0.375 0.489 0.625	55.0 0.3	10.1	10.1	271.7	0.375 0.375 0.625	46.1 12.2	21.1	15.3	0.024	0.0	1.0	1.0
276	B0R_075_037a	0.375 0.375 0.75	0.75 0.375 0.562	270 270	0.375 0.546 0.75	57.0 0.4	15.2	15.2	271.7	0.375 0.375 0.75	47.4 17.2	19.3	21.9	0.024	0.0	1.0	1.0
277	B0R_087_050a	0.375 0.375 1.0	1.0 0.625 0.687	270 270	0.375 0.604 0.875	59.0 0.6	20.3	20.3	271.7	0.375 0.375 1.0	48.4 23.0	25.3	31.2	0.024	0.0	1.0	1.0
278	B0R_100_062a	0.375 0.5 0.0	0.5 0.0 0.625	270 270	0.375 0.661 1.0	61.0 0.7	25.4	25.4	271.7	0.375 0.375 1.0	48.4 23.0	25.3	31.2	0.024	0.0	1.0	1.0
279	Y23C_050_050a	0.375 0.5 0.125	0.5 0.375 0.312	109 103	0.31 0.5 0.124	50.5 -1.2	37.1	39.2	108.6	0.375 0.5 0.125	49.5 -2.0	38.9	36.9	0.024	0.0	1.0	1.0
280	Y31G_050_037a	0.375 0.5 0.125	0.5 0.375 0.312	109 103	0.31 0.5 0.124	50.5 -1.2	37.1	39.2	108.6	0.375 0.5 0.125	49.5 -2.0	38.9	36.9	0.024	0.0	1.0	1.0
281	Y50G_050_025a	0.375 0.5 0.25	0.25 0.375 0.120	120 120	0.33 0.5 0.249	51.7 -10.2	13.4	16.9	127.2	0.375 0.5 0.25	49.7 -1.7	31.0	31.0	0.024	0.0	1.0	1.0
282	G0B_050_012a	0.375 0.5 0.375	0.5 0.125 0.437	150 150	0.375 0.5 0.393	54.3 -7.7	2.4	8.1	161.2	0.375 0.5 0.375	50.4 0.8	13.6	13.6	0.024	0.0	1.0	1.0
283	G50B_050_012a	0.375 0.5 0.5	0.5 0.125 0.437	210 210	0.375 0.5 0.468	54.9 -4.5	3.4	5.6	216.9	0.375 0.5 0.5	51.1 2.9	4.1	5.6	0.024	0.0	1.0	1.0
284	G73B_062_025a	0.375 0.5 0.625	0.625 0.25 0.5	240 240	0.375 0.586 0.625	58.3 -4											

vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS18/QS18.HTM>
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

entrada: *rgb/cmyk* -> *rgbe*
salida: transfiera a *cmy0e*

2-0132731-F0	QS180-7N, 2833-F	entrada: $rgb/cmyk \rightarrow rgbe$ salida: transfiera a $cmy\theta_e$	 
--------------	------------------	--	---

2-0132731-F0

TUB matrícula: 20130201-QS18/QS18L0NP.PDF /.PS TUB material: code=rha4ta
aplicación para la medida salida en la impresión offset, separación cmy0 (CMY0)

vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS18/QS18.HTM>
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

gráfico TUB-QS18; código de tono: H*e=R50Y_e
colores y diferencia en color, ΔE*

entrada: rgb/cmyk -> rgbe
salida: transfiera a cmy0_e

n	HfC*Fe	rgb_1e	icT_Fe	h ₈ _Fe	rgb*Fe	LabCh*Fe	LabCh*Fe	DF*Fe	h ₈ Me	rgb*Me	LabCh*Me
1053	NW_086e	0.866	0.866	360	0.866	0.866	86.1	3.7	360	1.0	956
1054	NW_093e	0.933	0.933	360	0.933	0.933	90.8	1.5	360	1.0	956
1055	NW_100e	1.0	1.0	360	1.0	1.0	95.6	0.1	360	1.0	956
1056	NW_000e	0.0	0.0	360	0.0	0.0	24.3	0.1	360	1.0	956
1057	NW_006e	0.066	0.066	360	0.066	0.066	29.0	6.7	360	1.0	956
1058	NW_013e	0.133	0.133	360	0.133	0.133	33.8	11.6	360	1.0	956
1059	NW_020e	0.2	0.2	360	0.2	0.2	38.6	22.4	360	1.0	956
1060	NW_026e	0.266	0.266	360	0.266	0.266	43.3	30.4	360	1.0	956
1061	NW_033e	0.333	0.333	360	0.333	0.333	48.1	40.4	360	1.0	956
1062	NW_040e	0.4	0.4	360	0.4	0.4	52.8	48.4	360	1.0	956
1063	NW_046e	0.466	0.466	360	0.466	0.466	57.5	51.6	360	1.0	956
1064	NW_053e	0.533	0.533	360	0.533	0.533	62.3	56.7	360	1.0	956
1065	NW_060e	0.6	0.6	360	0.6	0.6	67.1	62.0	360	1.0	956
1066	NW_066e	0.666	0.666	360	0.666	0.666	71.8	68.3	360	1.0	956
1067	NW_073e	0.734	0.734	360	0.734	0.734	76.6	71.5	360	1.0	956
1068	NW_080e	0.8	0.8	360	0.8	0.8	81.3	75.2	360	1.0	956
1069	NW_086e	0.866	0.866	360	0.866	0.866	86.0	79.4	360	1.0	956
1070	NW_093e	0.933	0.933	360	0.933	0.933	90.8	81.1	360	1.0	956
1071	NW_100e	1.0	1.0	360	1.0	1.0	95.6	85.9	360	1.0	956
1072	NW_000e	0.0	0.0	360	0.0	0.0	24.3	69.9	360	1.0	956
1073	ROY_100_100e	1.0	1.0	360	1.0	1.0	95.6	118.4	360	1.0	956
1074	G50B_100_100e	0.0	1.0	360	0.0	0.254	45.6	299.2	360	1.0	956
1075	Y06B_100_100e	1.0	1.0	360	1.0	0.747	55.0	138.7	360	1.0	956
1076	B06B_100_100e	0.0	0.0	360	0.0	0.878	83.6	328.9	360	1.0	956
1077	R06B_100_100e	1.0	1.0	360	1.0	0.438	40.2	36.0	360	1.0	956
1078	B50B_100_100e	0.0	1.0	360	0.0	0.151	31.1	359.8	360	1.0	956
1079	B50B_100_100e	1.0	1.0	360	0.321	1.0	45.8	45.2	360	0.321	31.1

delta E** = 10.3

