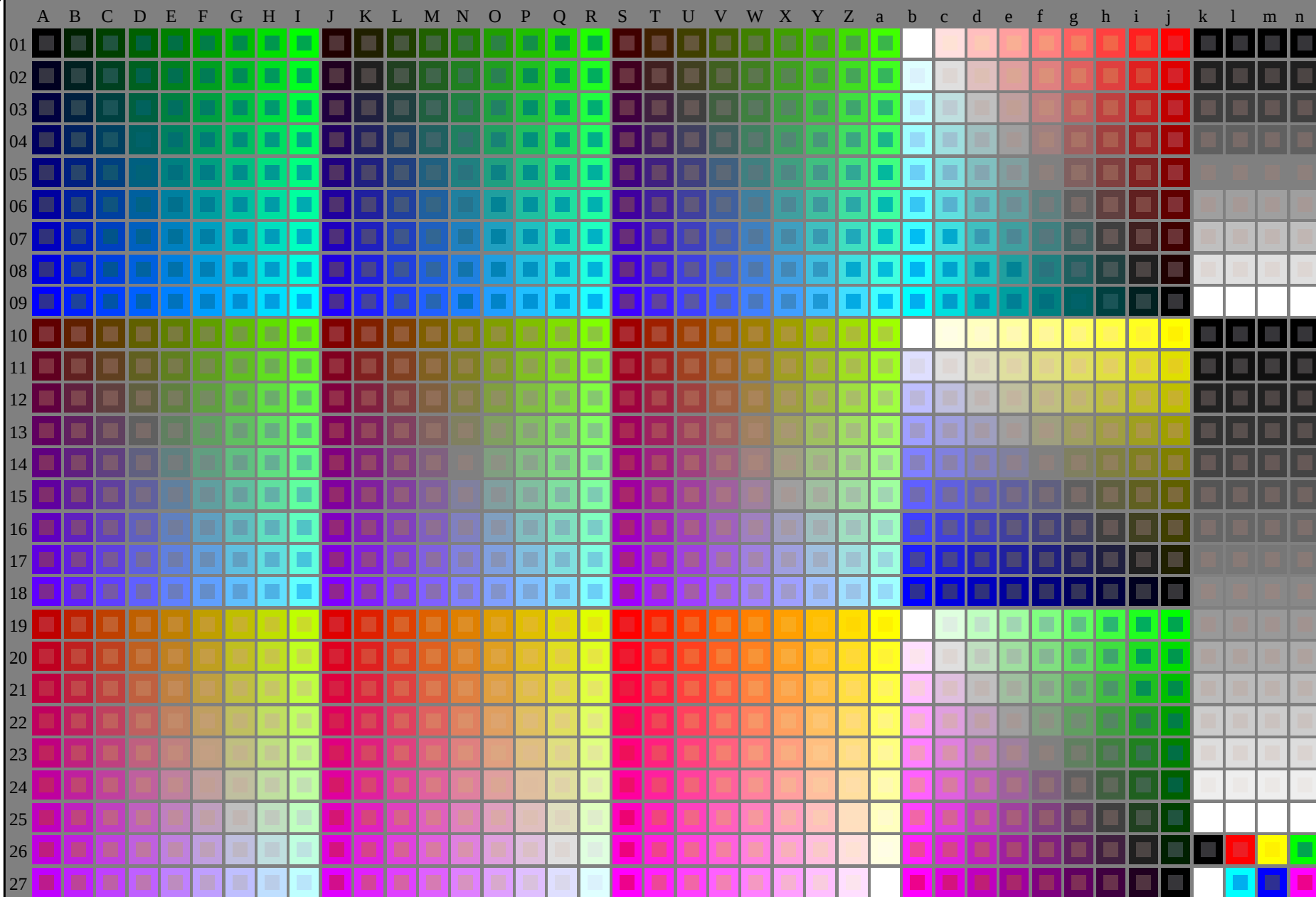


see similar files: <http://130.149.60.45/~farbmetrik/SE17/SE17.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE17/SE17L0NA.TXT /.PS
application for measurement of offset print output

TUB material: code=rha4ta



1-003031-L0

SE170-7N

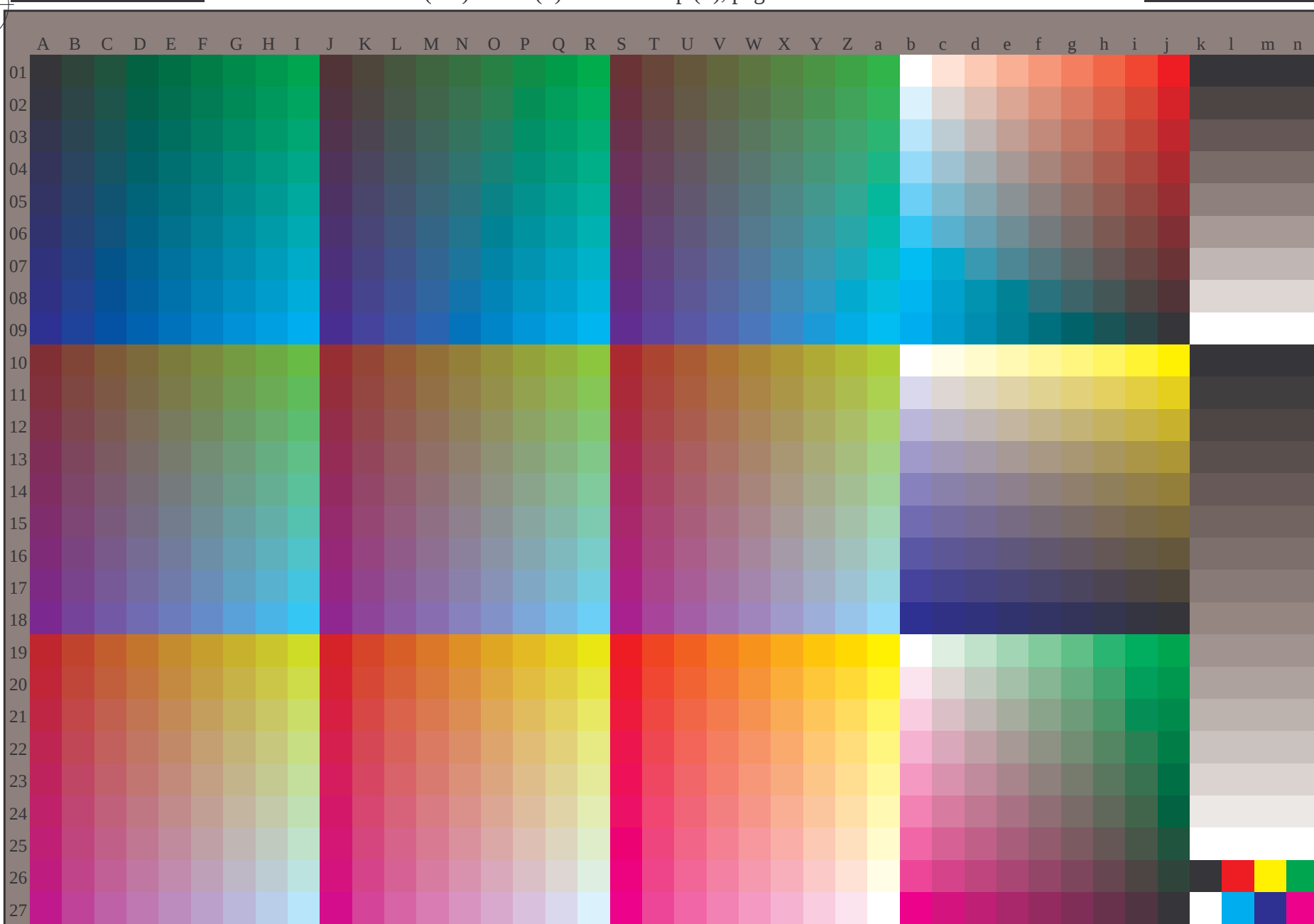
Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): **rgb + cmy0** (A-j + k26_n27), 000n (k), w (l), nnn0 (m), www (n), 3D = 0

TUB-test chart SE17; 1080 colours, offset standard paper
Test chart according to DIN 33872

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

see similar files: <http://130.149.60.45/~farbmetrik/SE17/SE17.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE17/SE17L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separationcmy0 (CMY0)



1-003131-L0

SE170-70

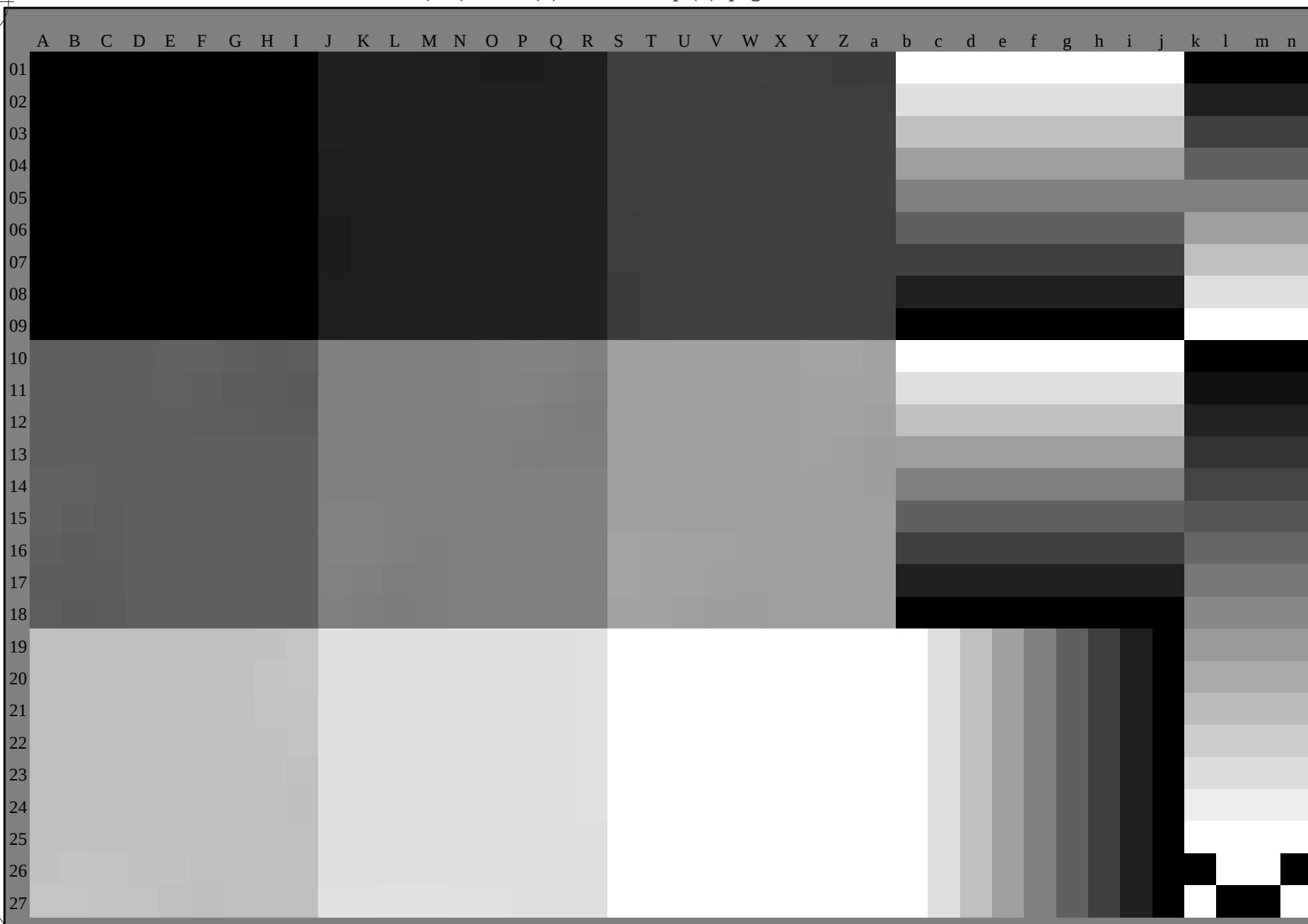
Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): $rgb(A_n)$, $3D=0$

TUB-test chart SE17; 1080 colours, offset standard paper

Test chart according to DIN 33872, $3D=0$, $de=0$, $cmy0$ input: $rgb/cmyk \rightarrow rgb_d$ output: transfer to $cmy0_d$

see similar files: <http://130.149.60.45/~farbmetrik/SE17/SE17.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE17/SE17L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separationcmy0 (CMY0)



1-003231-L0

SE170-70

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

TUB-test chart SE17; 1080 colours, offset standard paper

Test chart according to DIN 33872, 3D=0, de=0, cmy0

input: *rgb/cmyk* -> *rgb_d*output: transfer to *cmy0_d*

1-003231-E0

C

M

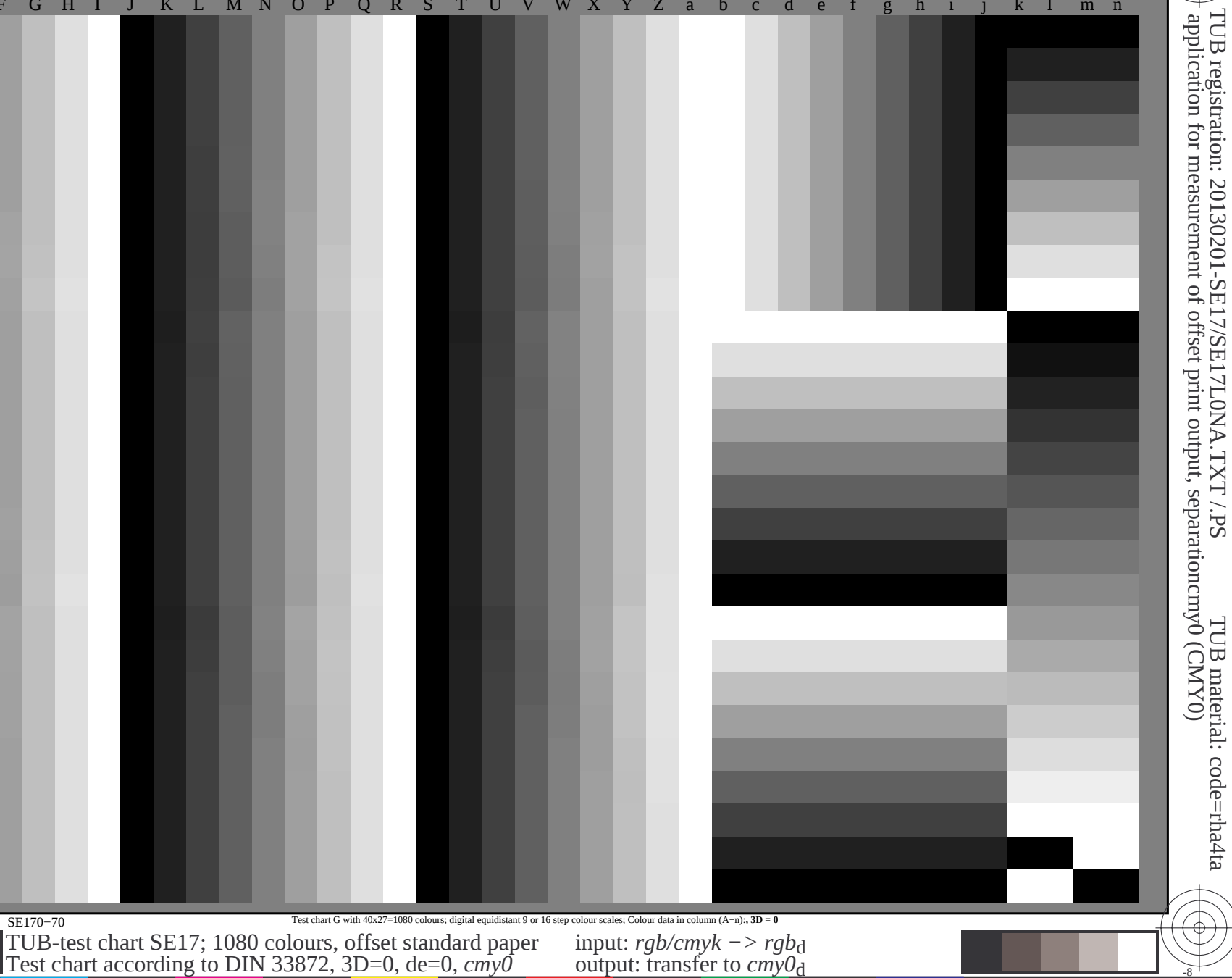
Y

O

L

V

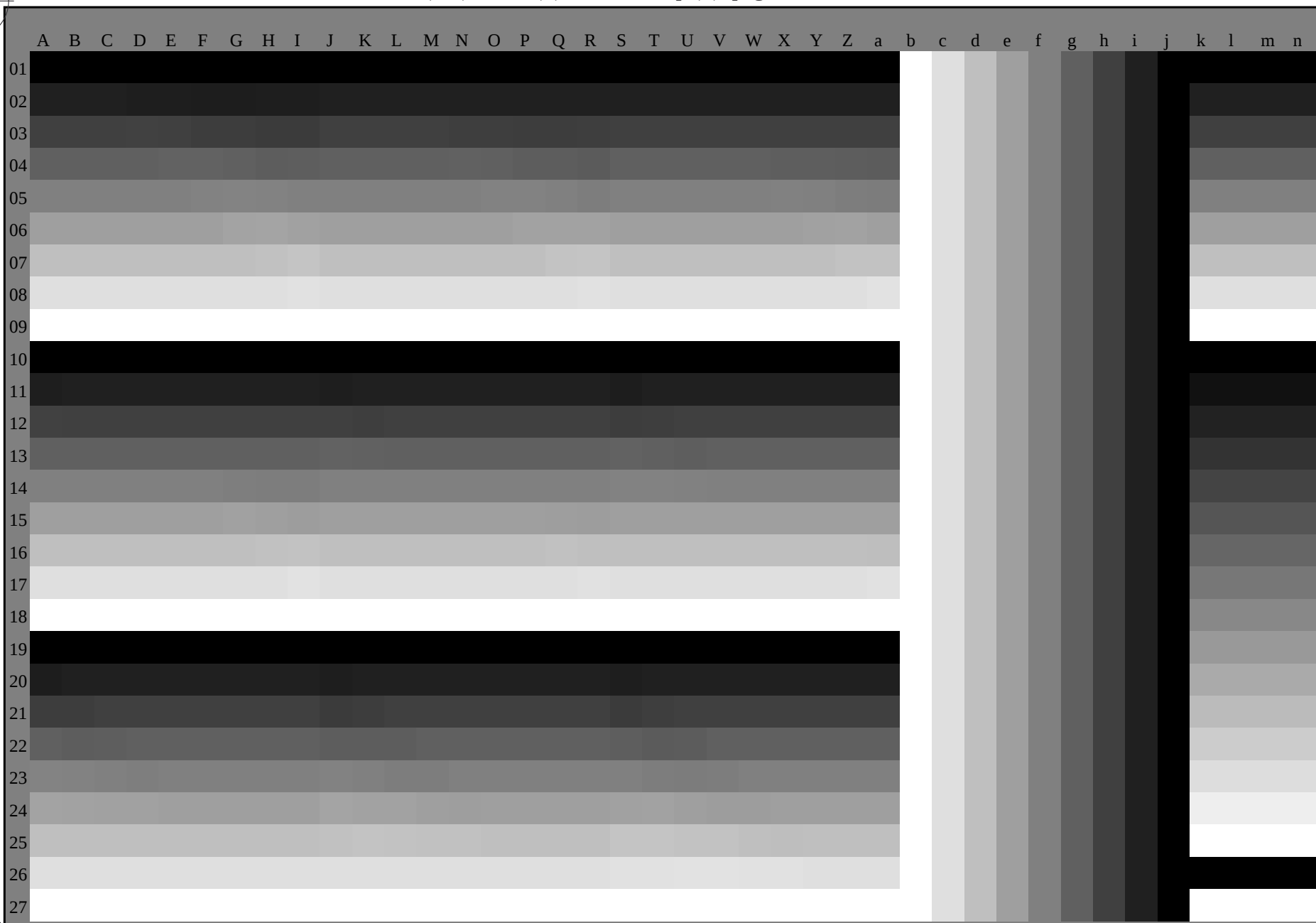
C



http://130.149.60.45/~farbmetrik/SE17/SE17L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 5/33

see similar files: <http://130.149.60.45/~farbmetrik/SE17/SE17.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE17/SE17L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmy0 (CMY0)



1-003431-L0

SE170-70

TUB-test chart SE17; 1080 colours, offset standard paper
Test chart according to DIN 33872, 3D=0, de=0, cmy0

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmy0_d$

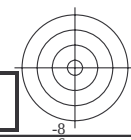
1-003431-E0

C



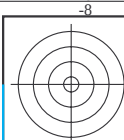
TUB registration: 20130201-SE17/SE17L0NA.TXT /.PSS
application for measurement of offset print output, separations

TUB material: code=rh4ta
y0 (CMY0)



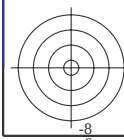
http://130.149.60.45/~farbmetrik/SE17/SE17L0NA.TXT /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 6/33

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 6/33



—see similar files: <http://130.149.60.45/~farbmatrik/SE17/SE17.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

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



SE170-70

TUB-test chart SE17; 1080 colours, offset standard paper

Test chart according to DIN 33872, 3D=0, de=0, cmy0

input: $rgb/cmyk \rightarrow rgb_d$

output: transfer to $cmy0_d$



1-003531-F0

C

N

Y

0

L

V

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 $RYGCBM_d$: $h_{ab,d} = 32.6, 94.4, 157.0, 233.3, 303.9, 359.5$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$ Yellow

$LCH^*_d = 88.0 \ 90.0 \ 94.3$

$LAB^*_d = 88.0 \ -6.8 \ 89.7$

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

$L=G_d$ leaf-green

$LCH^*_d = 49.6 \ 70.6 \ 157.0$

$LAB^*_d = 49.6 \ -65.0 \ 27.6$

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

$C=C_d$ cyan-blue

$LCH^*_d = 57.0 \ 49.7 \ 233.2$

$LAB^*_d = 57.0 \ -29.7 \ -39.8$

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

$O=R_d$ orange-red

$LCH^*_d = 46.4 \ 83.4 \ 32.5$

$LAB^*_d = 46.4 \ 70.3 \ 44.9$

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

$M=M_d$ magenta-red

$LCH^*_d = 47.2 \ 78.3 \ 359.5$

$LAB^*_d = 47.2 \ 78.3 \ -0.6$

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

$V=B_d$ violet-blue

$LCH^*_d = 25.8 \ 46.7 \ 303.9$

$LAB^*_d = 25.8 \ 26.0 \ -38.7$

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

Y_e yellow

$LCH^*_e = 85.8 \ 87.5 \ 92.3$

$LAB^*_e = 85.8 \ -3.5 \ 87.4$

$rgb^*_{de} = 1.0 \ 0.93 \ 0.0$

G_e green

$LCH^*_e = 50.3 \ 65.8 \ 162.2$

$LAB^*_e = 50.3 \ -62.6 \ 20.1$

$rgb^*_{de} = 0.0 \ 1.0 \ 0.112$

C_e blue-green

$LCH^*_e = 55.4 \ 47.3 \ 216.9$

$LAB^*_e = 55.4 \ -37.8 \ -28.4$

$rgb^*_{de} = 0.0 \ 1.0 \ 0.767$

B_e blue

$LCH^*_e = 38.7 \ 38.9 \ 271.7$

$LAB^*_e = 38.7 \ 1.1 \ -38.9$

$rgb^*_{de} = 0.0 \ 0.38 \ 1.0$

R_e red

$LCH^*_e = 46.6 \ 79.2 \ 25.4$

$LAB^*_e = 46.6 \ 71.5 \ 34.1$

$rgb^*_{de} = 1.0 \ 0.0 \ 0.219$

M_e blue-red

$LCH^*_e = 31.5 \ 53.5 \ 328.6$

$LAB^*_e = 31.5 \ 45.7 \ -27.9$

$rgb^*_{de} = 0.319 \ 0.0 \ 1.0$

Y_s yellow

$LCH^*_s = 83.5 \ 84.9 \ 90.0$

$LAB^*_s = 83.5 \ 0.0 \ 84.9$

$rgb^*_{ds} = 1.0 \ 0.86 \ 0.0$

G_s green

$LCH^*_s = 52.7 \ 66.4 \ 150.0$

$LAB^*_s = 52.7 \ -57.5 \ 33.2$

$rgb^*_{ds} = 0.083 \ 1.0 \ 0.0$

R_s red

$LCH^*_s = 46.5 \ 81.7 \ 30.0$

$LAB^*_s = 46.5 \ 70.7 \ 40.8$

$rgb^*_{ds} = 1.0 \ 0.0 \ 0.084$

M_s blue-red

$LCH^*_s = 32.0 \ 54.2 \ 330.0$

$LAB^*_s = 32.0 \ 46.9 \ -27.1$

$rgb^*_{ds} = 0.334 \ 0.0 \ 1.0$

C_s blue-green

$LCH^*_s = 54.7 \ 47.4 \ 210.0$

$LAB^*_s = 54.7 \ -41.0 \ -23.7$

$rgb^*_{ds} = 0.0 \ 1.0 \ 0.685$

B_s blue

$LCH^*_s = 39.4 \ 39.0 \ 270.0$

$LAB^*_s = 39.4 \ 0.0 \ -39.0$

$rgb^*_{ds} = 0.0 \ 0.399 \ 1.0$

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

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

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

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

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

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

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

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

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

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

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

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

1-003631-L0

SE170-70

$LAB^*_{La0}, YN=0\%, XYZ_{Znw}=3.5, 4.0, 6.0, 86.2, 91.2, 96.3, LAB^*_{nw}=23.6, 0.0, 0.0, 96.5, 0.0, 0.0$

Output: Offset standard print; separation cmy0*, D65, page 7/33

TUB-test chart SE17; 1080 colours, offset standard paper
48 step hue circles; $rgb-LabCh^*$ tables, 3D=0, de=0, cmy0

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmy0_d$

1-003631-F0

1-003631-F0

see similar files: <http://130.149.60.45/~farbmetrik/SE17/SE17.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-SE17/SE17L0NA.TXT /PS
application for measurement of offset print output, separation 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 $RYGCBM_d$: $h_{ab,d} = 32.6, 94.4, 157.0, 233.3, 303.9, 359.5$; 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}	$LAB^*_{ddx64M}(x=LabCh)$	$rgb^*_{ddx361M}$	$LAB^*_{ddx361M}(x=LabCh)$	$rgb^*_{dsx361M}$	$LAB^*_{dsx361M}(x=LabCh)$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
32.5	30.0	25.4	1.0	0.0	0.0	46.4	70.3	44.9	83.4	32.5	1.0	0.0	0.0
38.1	37.5	33.8	1.0	0.125	0.0	49.9	62.1	48.7	79.0	38.1	1.0	0.0	0.0
46.5	45.0	42.1	1.0	0.25	0.0	54.8	51.4	54.3	74.8	46.5	1.0	0.0	0.0
56.7	52.5	50.5	1.0	0.375	0.0	60.5	39.6	60.5	72.3	56.7	1.0	0.0	0.0
66.8	60.0	58.8	1.0	0.5	0.0	66.4	28.5	66.7	72.5	66.8	1.0	0.0	0.0
77.9	67.5	67.2	1.0	0.625	0.0	73.5	15.9	74.3	76.0	77.9	1.0	0.0	0.0
85.1	75.0	75.6	1.0	0.75	0.0	79.1	6.8	80.2	80.5	85.1	1.0	0.0	0.0
90.6	82.5	83.9	1.0	0.875	0.0	84.1	-0.9	85.5	85.5	90.6	1.0	0.0	0.0
94.3	90.0	92.3	1.0	1.0	0.0	88.0	-6.8	89.7	90.0	94.3	1.0	0.0	0.0
97.1	97.5	101.0	0.875	1.0	0.0	84.5	-10.3	82.8	83.5	97.1	0.883	1.0	0.0
100.2	105.0	109.7	0.75	1.0	0.0	80.5	-14.0	77.6	78.9	100.2	0.75	1.0	0.0
106.0	112.5	118.5	0.625	1.0	0.0	75.9	-20.8	72.5	75.5	106.0	0.633	1.0	0.0
113.3	120.0	127.2	0.5	1.0	0.0	70.6	-26.9	62.2	67.8	113.3	0.5	1.0	0.0
121.5	127.5	136.0	0.375	1.0	0.0	65.4	-33.6	54.7	64.2	121.5	0.383	1.0	0.0
135.8	135.0	144.7	0.25	1.0	0.0	58.4	-46.3	44.9	64.5	135.8	0.25	1.0	0.0
146.5	142.5	153.4	0.125	1.0	0.0	54.2	-53.6	35.4	64.3	146.5	0.133	1.0	0.0
157.0	150.0	162.2	0.0	1.0	0.0	49.6	-65.0	27.6	70.6	157.0	0.0	1.0	0.0
162.8	157.5	169.0	0.0	1.0	0.125	50.4	-62.3	19.2	65.2	162.8	0.0	1.0	0.117
170.5	165.0	175.9	0.0	1.0	0.25	51.1	-58.4	9.7	59.2	170.5	0.0	1.0	0.25
180.7	172.5	182.7	0.0	1.0	0.375	52.0	-53.7	-0.7	53.7	180.7	0.0	1.0	0.367
192.6	180.0	189.6	0.0	1.0	0.5	53.0	-48.2	-10.8	49.4	192.6	0.0	1.0	0.5
204.6	187.5	196.4	0.0	1.0	0.625	54.2	-43.2	-19.8	47.5	204.6	0.0	1.0	0.617
215.7	195.0	203.2	0.0	1.0	0.75	55.3	-38.3	-27.5	47.2	215.7	0.0	1.0	0.75
224.8	202.5	210.1	0.0	1.0	0.875	56.1	-34.1	-33.9	48.1	224.8	0.0	1.0	0.867
233.2	210.0	216.9	0.0	1.0	1.0	57.0	-29.7	-39.8	49.7	233.2	0.0	1.0	1.0
237.7	217.5	223.8	0.0	0.875	1.0	54.2	-25.1	-39.8	47.1	237.7	0.0	0.883	1.0
243.5	225.0	230.6	0.0	0.75	1.0	50.9	-19.7	-39.7	44.3	243.5	0.0	0.75	1.0
249.9	232.5	237.5	0.0	0.625	1.0	47.6	-14.3	-39.4	42.0	249.9	0.0	0.633	1.0
260.8	240.0	244.3	0.0	0.5	1.0	43.1	-6.3	-39.3	39.8	260.8	0.0	0.5	1.0
272.2	247.5	251.2	0.0	0.375	1.0	38.5	1.5	-38.8	38.9	272.2	0.0	0.383	1.0
284.2	255.0	258.0	0.0	0.25	1.0	34.1	9.8	-38.8	40.0	284.2	0.0	0.25	1.0
295.4	262.5	264.8	0.0	0.125	1.0	29.5	18.5	-38.8	43.0	295.4	0.0	0.133	1.0
303.9	270.0	271.7	0.0	0.0	1.0	25.8	26.0	-38.7	46.7	303.9	0.0	0.0	1.0
312.9	277.5	278.8	0.125	0.0	1.0	28.4	32.6	-35.0	47.9	312.9	0.117	0.0	1.0
322.0	285.0	285.9	0.25	0.0	1.0	29.2	39.8	-31.1	50.6	322.0	0.25	0.0	1.0
333.8	292.5	293.0	0.375	0.0	1.0	33.3	50.2	-24.6	55.9	333.8	0.367	0.0	1.0
340.6	300.0	300.1	0.5	0.0	1.0	36.7	56.5	-19.8	59.9	340.6	0.5	0.0	1.0
348.4	307.5	307.2	0.625	0.0	1.0	39.1	64.4	-13.1	65.7	348.4	0.617	0.0	1.0
353.1	315.0	314.3	0.75	0.0	1.0	42.7	70.0	-8.4	70.5	353.1	0.75	0.0	1.0
356.0	322.5	321.4	0.875	0.0	1.0	45.4	73.8	-5.1	74.0	356.0	0.867	0.0	1.0
359.5	330.0	328.6	1.0	0.0	1.0	47.2	78.3	-0.6	78.3	359.5	1.0	0.0	1.0
362.6	337.5	335.7	1.0	0.0	0.875	47.0	77.4	3.5	77.4	362.6	1.0	0.0	0.883
365.8	345.0	342.8	1.0	0.0	0.75	46.9	76.3	7.8	76.7	365.8	1.0	0.0	0.75
370.0	352.5	349.9	1.0	0.0	0.625	46.9	75.1	13.2	76.2	370.0	1.0	0.0	0.633
374.4	360.0	357.0	1.0	0.0	0.5	46.7	74.0	19.0	76.4	374.4	1.0	0.0	0.5
379.4	367.5	364.1	1.0	0.0	0.375	46.9	72.4	25.6	76.8	379.4	1.0	0.0	0.383
384.4	375.0	371.2	1.0	0.0	0.25	46.6	71.6	32.5	78.7	384.4	1.0	0.0	0.25
388.7	382.5	378.3	1.0	0.0	0.125	46.5	70.9	38.9	80.9	388.7	1.0	0.0	0.133
392.5	390.0	385.4	1.0	0.0	0.0	46.4	70.3	44.9	83.4	392.5	1.0	0.0	0.0

1-003731-L0

SE170-70

LAB*la0, YN=0%, XYZnw=3.5, 4.0, 6.0, 86.2, 91.2, 96.3, LAB*lw=23.6, 0.0, 0.0, 96.5, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 8/33

TUB-test chart SE17; 1080 colours, offset standard paper
48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=0, cmy0

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmy0_d$

TUB registration: 20130201-SE17/SE17L0NA.TXT /PS
application for measurement of offset print output, separationcmy0 (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 $RYGCBM_d$: $h_{ab,d} = 32.6, 94.4, 157.0, 233.3, 303.9, 359.5$; 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}															
32.5	30.0	25.4	1.0	0.0	0.0	46.4	70.3	44.9	83.4	32.5	32.5	1.0	0.0	0.219	46.6	71.6	34.1	79.3	25					
38.1	37.5	33.8	1.0	0.125	0.0	49.9	62.1	48.7	79.0	38.1	38.1	1.0	0.016	0.0	46.9	69.3	45.5	82.9	33					
46.5	45.0	42.1	1.0	0.25	0.0	54.8	51.4	54.3	74.8	46.5	46.5	1.0	0.185	0.0	52.3	57.1	51.7	77.0	42					
56.7	52.5	50.5	1.0	0.375	0.0	60.5	39.6	60.5	72.3	56.7	56.7	1.0	0.292	0.0	56.7	47.6	56.7	74.0	49					
66.8	60.0	58.8	1.0	0.5	0.0	66.4	28.5	66.7	72.5	66.8	66.8	1.0	0.401	0.0	61.7	37.4	62.0	72.4	58					
77.9	67.5	67.2	1.0	0.625	0.0	73.5	15.9	74.3	76.0	77.9	77.9	1.0	0.498	0.0	66.3	28.7	66.6	72.6	66					
85.1	75.0	75.6	1.0	0.75	0.0	79.1	6.8	80.2	80.5	85.1	85.1	1.0	0.599	0.0	72.0	18.7	73.0	75.3	75					
90.6	82.5	83.9	1.0	0.875	0.0	84.1	-0.9	85.5	85.5	90.6	90.6	1.0	0.72	0.0	77.8	9.1	78.9	79.5	83					
94.3	90.0	92.3	1.0	1.0	0.0	88.0	-6.8	89.7	90.0	94.3	94.3	1.0	0.93	0.0	85.9	-3.4	87.5	87.5	92					
97.1	97.5	101.0	0.875	1.0	0.0	84.5	-10.3	82.8	83.5	97.1	97.1	1.0	1.00	0.0	80.4	-14.2	77.5	78.8	100					
100.2	105.0	109.7	0.75	1.0	0.0	80.5	-14.0	77.6	78.9	100.2	100.2	1.0	0.561	1.0	0.0	73.3	-24.1	67.3	71.6	109				
106.0	112.5	118.5	0.625	1.0	0.0	75.9	-20.8	72.5	75.5	106.0	106.0	1.0	0.43	1.0	0.0	67.8	-30.8	58.2	65.8	117				
113.3	120.0	127.2	0.5	1.0	0.0	70.6	-26.9	62.2	67.8	113.3	113.3	1.0	0.325	1.0	0.0	62.7	-38.9	51.2	64.3	127				
121.5	127.5	136.0	0.375	1.0	0.0	65.4	-33.6	54.7	64.2	121.5	121.5	1.0	0.254	1.0	0.0	58.7	-45.9	45.3	64.5	135				
135.8	135.0	144.7	0.25	1.0	0.0	58.4	-46.3	44.9	64.5	135.8	135.8	1.0	0.146	1.0	0.0	54.9	-52.5	37.2	64.4	144				
146.5	142.5	153.4	0.125	1.0	0.0	54.2	-53.6	35.4	64.3	146.5	146.5	1.0	0.049	1.0	0.0	51.5	-60.6	31.1	68.2	152				
157.0	150.0	162.2	0.0	1.0	0.0	49.6	-65.0	27.6	70.6	157.0	157.0	1.0	0.0	1.0	0.112	50.4	-62.6	20.1	65.8	162				
162.8	157.5	169.0	0.0	1.0	0.125	50.4	-62.3	19.2	65.2	162.8	162.8	1.0	0.0	1.0	0.218	51.0	-59.5	12.0	60.8	168				
170.5	165.0	175.9	0.0	1.0	0.25	51.1	-58.4	9.7	59.2	170.5	170.5	1.0	0.0	1.0	0.315	51.6	-56.1	4.0	56.4	175				
180.7	172.5	182.7	0.0	1.0	0.375	52.0	-53.7	-0.7	53.7	180.7	180.7	1.0	0.0	1.0	0.391	52.2	-53.0	-2.0	53.2	182				
192.6	180.0	189.6	0.0	1.0	0.5	53.0	-48.2	-10.8	49.4	192.6	192.6	1.0	0.0	1.0	0.468	52.8	-49.7	-8.3	50.5	189				
204.6	187.5	196.4	0.0	1.0	0.625	54.2	-43.2	-19.8	47.5	204.6	204.6	1.0	0.0	1.0	0.535	53.4	-46.9	-13.4	48.9	195				
215.7	195.0	203.2	0.0	1.0	0.75	55.3	-38.3	-27.5	47.2	215.7	215.7	1.0	0.0	1.0	0.611	54.1	-43.8	-18.8	47.8	203				
224.8	202.5	210.1	0.0	1.0	0.875	56.1	-34.1	-33.9	48.1	224.8	224.8	1.0	0.0	1.0	0.682	54.7	-41.1	-23.4	47.4	209				
233.2	210.0	216.9	0.0	1.0	1.0	57.0	-29.7	-39.8	49.7	233.2	233.2	1.0	0.0	1.0	0.767	55.5	-37.7	-28.4	47.4	216				
237.7	217.5	223.8	0.0	0.875	1.0	54.2	-25.1	-39.8	47.1	237.7	237.7	1.0	0.0	1.0	0.855	56.0	-34.8	-32.8	48.0	223				
243.5	225.0	230.6	0.0	0.75	1.0	50.9	-19.7	-39.7	44.3	243.5	243.5	1.0	0.0	1.0	0.961	56.8	-31.1	-38.0	49.3	230				
249.9	232.5	237.5	0.0	0.625	1.0	47.6	-14.3	-39.4	42.0	249.9	249.9	1.0	0.0	0.895	1.0	54.7	-25.8	-39.8	47.6	237				
260.8	240.0	244.3	0.0	0.5	1.0	43.1	-6.3	-39.3	39.8	260.8	260.8	1.0	0.0	0.734	1.0	50.5	-19.0	-39.7	44.1	244				
272.2	247.5	251.2	0.0	0.375	1.0	38.5	1.5	-38.8	38.9	272.2	272.2	1.0	0.0	0.616	1.0	47.3	-13.7	-39.4	41.9	250				
284.2	255.0	258.0	0.0	0.25	1.0	34.1	9.8	-38.8	40.0	284.2	284.2	1.0	0.0	0.532	1.0	44.3	-8.3	-39.4	40.4	258				
295.4	262.5	264.8	0.0	0.125	1.0	29.5	18.5	-38.8	43.0	295.4	295.4	1.0	0.0	0.461	1.0	41.7	-3.7	-39.3	39.5	264				
303.9	270.0	271.7	0.0	0.0	1.0	25.8	26.0	-38.7	46.7	303.9	303.9	1.0	0.0	0.381	1.0	38.7	1.2	-38.8	39.0	271				
312.9	277.5	278.8	0.125	0.0	1.0	28.4	32.6	-35.0	47.9	312.9	312.9	1.0	0.0	0.311	1.0	36.3	5.8	-39.0	39.5	278				
322.0	285.0	285.9	0.25	0.0	1.0	29.2	39.8	-31.1	50.6	322.0	322.0	1.0	0.0	0.231	1.0	33.4	11.1	-38.9	40.5	285				
333.8	292.5	293.0	0.375	0.0	1.0	33.3	50.2	-24.6	55.9	333.8	333.8	1.0	0.0	0.157	1.0	30.7	16.2	-38.9	42.3	292				
340.6	300.0	300.1	0.5	0.0	1.0	36.7	56.5	-19.8	59.9	340.6	340.6	1.0	0.0	0.055	1.0	27.5	22.7	-38.9	45.1	300				
348.4	307.5	307.2	0.625	0.0	1.0	39.1	64.4	-13.1	65.7	348.4	348.4	1.0	0.0	0.04	0.0	1.0	26.7	28.2	-37.6	47.1	306			
353.1	315.0	314.3	0.75	0.0	1.0	42.7	70.0	-8.4	70.5	353.1	353.1	1.0	0.0	0.145	0.0	1.0	28.6	33.8	-34.5	48.4	314			
356.0	322.5	321.4	0.875	0.0	1.0	45.4	73.8	-5.1	74.0	356.0	356.0	1.0	0.0	0.236	0.0	1.0	29.2	39.1	-31.6	50.3	321			
359.5	330.0	328.6	1.0	0.0	1.0	47.2	78.3	-0.6	78.3	359.5	359.5	1.0	0.0	0.319	0.0	1.0	31.5	45.7	-27.8	53.6	328			
362.6	337.5	335.7	1.0	0.0	0.875	47.0	77.4	3.5	77.4	362.6	362.6	1.0	0.0	0.404	0.0	1.0	34.0	51.6	-23.7	56.8	335			
365.8	345.0	342.8	1.0	0.0	0.75	46.9	76.3	7.8	76.7	365.8	365.8	1.0	0.0	0.535	0.0	1.0	37.5	58.8	-18.1	61.6	342			
370.0	352.5	349.9	1.0	0.0	0.625	46.9	75.1	13.2	76.2	370.0	370.0	1.0	0.0	0.651	0.0	1.0	39.9	65.6	-12.1	66.8	349			
374.4	360.0	357.0	1.0	0.0	0.5	46.7	74.0	19.0	76.4	374.4	374.4	1.0	0.0	0.721	0.0	1.0	41.9	68.8	-9.5	69.4	352			
379.4	367.5	364.1	1.0	0.0	0.375	46.9	72.4	25.6	76.8	379.4	379.4	1.0	0.0	0.987	47.2	78.3	-0.1	78.3	359					
384.4	375.0	371.2	1.0	0.0	0.25	46.6	71.6	32.5	78.7	384.4	384.4	1.0	0.0	0.663	47.0	75.5	11.7	76.4	368					
388.7	382.5	378.3	1.0	0.0	0.125	46.5	70.9	38.9	80.9	388.7	388.7	1.0	0.0	0.447	46.8	73.4	21.8	76.6	376					
392.5	390.0	385.4	1.0	0.0	0.0	46.4	70.3	44.9	83.4	392.5	392.5	1.0	0.0	0.219	46.6	71.6	34.1	79.3	385					

TUB registration: 20130201-SE17/SE17L0NA.TXT /PS
application for measurement of offset print output, separationcmy0 (CMY0)
TUB material: code=rh4ta

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 $RYGCBM_d$: $h_{ab,d} = 32.6, 94.4, 157.0, 233.3, 303.9, 359.5$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

[illegible]

1-0031131-L0

SE170-70

LAB*la0, YN=0%, XYZnw=3.5, 4.0, 6.0, 86.2, 91.2, 96.3, LAB*nw=23.6, 0.0, 0.0, 96.5, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 12/33

TUB-test chart SE17: 1080 colours, offset standard paper

input: $rqb/cmvk \rightarrow rqb_d$

48 step hue circles: *rgb-LabCh** tables, 3D=0, de=0, cmv0

output: transfer to $cmv0_d$

1-0031131-F0

TUB registration: 20130201-SE17/SE17L0NA.TXT /.PS
application for measurement of offset print output, separ

TUB material: code=rh4ta
y0 (CMY0)

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 $RYGCBM_d$: $h_{ab,d} = 32.6, 94.4, 157.0, 233.3, 303.9, 359.5$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

[illegible]

1-0031231-L0

SE170-70

LAB*la0, YN=0%, XYZnw=3.5, 4.0, 6.0, 86.2, 91.2, 96.3, LAB*nw=23.6, 0.0, 0.0, 96.5, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 13/33

TUB-test chart SE17; 1080 colours, offset standard paper
48 step hue circles; *rgb-LabCh** tables, 3D=0, de=0, *cmY*

input: *rgb/cmyk* $\rightarrow$ *rgb_d*
output: transfer to *cmy0_d*

1-0031231-F0

0

C



M



Y

O



L

5

V

$$\begin{array}{r} 0 \\ -6 \\ \hline \end{array}$$

1

~~1-0031431-F~~

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: $h_{ab,d} = 32.6, 94.4, 157.0, 233.3, 303.9, 359.5$; 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^* de361Mi
365	345	342	1.0 0.0	0.75 46.9 76.3 7.8 76.7 365	0.569 0.0 1.0	38.1 61.0 -16.3 63.2 345	1.0 0.0 0.75	0.535 0.0 1.0	37.5 58.8 -18.1 61.6 342	1.0 0.0 0.75	
366	346	343	1.0 0.0	0.733 46.9 76.2 8.5 76.7 366	0.585 0.0 1.0	38.4 62.0 -15.4 63.9 346	1.0 0.0 0.733	0.55 0.0 1.0	37.7 59.8 -17.3 62.3 343	1.0 0.0 0.733	
366	347	344	1.0 0.0	0.716 46.9 76.0 9.3 76.6 366	0.601 0.0 1.0	38.7 63.0 -14.4 64.7 347	1.0 0.0 0.717	0.565 0.0 1.0	38.0 60.8 -16.5 63.0 344	1.0 0.0 0.717	
367	348	345	1.0 0.0	0.7 46.9 75.9 10.0 76.5 367	0.617 0.0 1.0	39.0 64.0 -13.5 65.4 348	1.0 0.0 0.7	0.58 0.0 1.0	38.3 61.7 -15.7 63.7 345	1.0 0.0 0.7	
368	349	346	1.0 0.0	0.683 46.9 75.7 10.7 76.5 368	0.639 0.0 1.0	39.6 65.1 -12.6 66.3 349	1.0 0.0 0.683	0.595 0.0 1.0	38.6 62.6 -14.8 64.4 346	1.0 0.0 0.683	
368	350	347	1.0 0.0	0.666 46.9 75.5 11.4 76.4 368	0.666 0.0 1.0	40.3 66.3 -11.6 67.3 350	1.0 0.0 0.667	0.61 0.0 1.0	38.9 63.6 -13.9 65.1 347	1.0 0.0 0.667	
369	351	348	1.0 0.0	0.65 46.9 75.3 12.1 76.3 369	0.692 0.0 1.0	41.1 67.5 -10.6 68.4 351	1.0 0.0 0.65	0.625 0.0 1.0	39.2 64.5 -13.0 65.8 348	1.0 0.0 0.65	
369	352	349	1.0 0.0	0.633 46.9 75.2 12.9 76.3 369	0.719 0.0 1.0	41.9 68.7 -9.6 69.4 352	1.0 0.0 0.633	0.651 0.0 1.0	39.9 65.6 -12.1 66.8 349	1.0 0.0 0.633	
370	353	350	1.0 0.0	0.616 46.9 75.0 13.6 76.2 370	0.746 0.0 1.0	42.7 69.9 -8.5 70.4 353	1.0 0.0 0.617	0.677 0.0 1.0	40.7 66.8 -11.2 67.7 350	1.0 0.0 0.617	
370	354	351	1.0 0.0	0.6 46.9 74.9 14.4 76.3 370	0.787 0.0 1.0	43.6 71.2 -7.4 71.6 354	1.0 0.0 0.6	0.702 0.0 1.0	41.4 67.9 -10.2 68.7 351	1.0 0.0 0.6	
371	355	352	1.0 0.0	0.583 46.8 74.7 15.1 76.3 371	0.83 0.0 1.0	44.5 72.5 -6.2 72.8 355	1.0 0.0 0.583	0.728 0.0 1.0	42.1 69.1 -9.2 69.7 352	1.0 0.0 0.583	
372	356	353	1.0 0.0	0.566 46.8 74.6 15.9 76.3 372	0.874 0.0 1.0	45.4 73.8 -5.1 74.0 356	1.0 0.0 0.567	0.755 0.0 1.0	42.9 70.2 -8.2 70.7 353	1.0 0.0 0.567	
372	357	354	1.0 0.0	0.55 46.8 74.5 16.7 76.3 372	0.91 0.0 1.0	45.9 75.2 -3.8 75.3 357	1.0 0.0 0.55	0.796 0.0 1.0	43.7 71.5 -7.2 71.8 354	1.0 0.0 0.55	
373	358	355	1.0 0.0	0.533 46.8 74.3 17.4 76.3 373	0.945 0.0 1.0	46.4 76.4 -2.6 76.5 358	1.0 0.0 0.533	0.837 0.0 1.0	44.6 72.7 -6.1 73.0 355	1.0 0.0 0.533	
373	359	356	1.0 0.0	0.516 46.8 74.1 18.2 76.3 373	0.981 0.0 1.0	46.9 77.7 -1.3 77.7 359	1.0 0.0 0.517	0.877 0.0 1.0	45.5 74.0 -4.9 74.1 356	1.0 0.0 0.517	
374	360	352	1.0 0.0	0.5 46.7 74.0 19.0 76.4 374	1.0 0.0	0.981 47.2 78.2 0.0 78.2 360	1.0 0.0 0.5	0.721 0.0 1.0	41.9 68.8 -9.5 69.4 352	1.0 0.0 0.5	
375	361	353	1.0 0.0	0.483 46.8 73.8 19.9 76.4 375	1.0 0.0	0.94 47.2 77.9 1.4 77.9 361	1.0 0.0 0.483	0.752 0.0 1.0	42.8 70.1 -8.3 70.6 353	1.0 0.0 0.483	
375	362	354	1.0 0.0	0.466 46.8 73.6 20.7 76.5 375	1.0 0.0	0.9 47.1 77.6 2.7 77.7 362	1.0 0.0 0.467	0.8 0.0 1.0	43.8 71.6 -7.1 71.9 354	1.0 0.0 0.467	
376	363	355	1.0 0.0	0.45 46.8 73.4 21.6 76.5 376	1.0 0.0	0.86 47.1 77.3 4.1 77.4 363	1.0 0.0 0.45	0.848 0.0 1.0	44.9 73.1 -5.8 73.3 355	1.0 0.0 0.45	
377	364	356	1.0 0.0	0.433 46.8 73.2 22.5 76.6 377	1.0 0.0	0.822 47.0 77.0 5.4 77.2 364	1.0 0.0 0.433	0.892 0.0 1.0	45.7 74.5 -4.4 74.7 356	1.0 0.0 0.433	
377	365	357	1.0 0.0	0.416 46.8 73.0 23.4 76.7 377	1.0 0.0	0.784 47.0 76.7 6.7 77.0 365	1.0 0.0 0.417	0.932 0.0 1.0	46.3 76.0 -3.0 76.0 357	1.0 0.0 0.417	
378	366	358	1.0 0.0	0.4 46.8 72.8 24.3 76.7 378	1.0 0.0	0.746 47.0 76.3 8.0 76.8 366	1.0 0.0 0.4	0.972 0.0 1.0	46.8 77.4 -1.6 77.4 358	1.0 0.0 0.4	
379	367	359	1.0 0.0	0.383 46.9 72.5 25.1 76.8 379	1.0 0.0	0.716 47.0 76.1 9.3 76.6 367	1.0 0.0 0.383	1.0 0.0	0.987 47.2 78.3 -0.1 78.3 359	1.0 0.0 0.383	
379	368	360	1.0 0.0	0.366 46.8 72.4 26.0 76.9 379	1.0 0.0	0.686 47.0 75.8 10.6 76.5 368	1.0 0.0 0.367	1.0 0.0	0.941 47.2 77.9 1.3 77.9 360	1.0 0.0 0.367	
380	369	362	1.0 0.0	0.35 46.8 72.3 27.0 77.2 380	1.0 0.0	0.656 46.9 75.5 12.0 76.4 369	1.0 0.0 0.35	1.0 0.0	0.896 47.1 77.6 2.8 77.6 362	1.0 0.0 0.35	
381	370	363	1.0 0.0	0.333 46.8 72.2 27.9 77.4 381	1.0 0.0	0.625 46.9 75.1 13.2 76.3 370	1.0 0.0 0.333	1.0 0.0	0.853 47.1 77.2 4.3 77.4 363	1.0 0.0 0.333	
381	371	364	1.0 0.0	0.316 46.7 72.1 28.8 77.7 381	1.0 0.0	0.597 46.9 74.9 14.6 76.3 371	1.0 0.0 0.317	1.0 0.0	0.81 47.0 76.9 5.8 77.1 364	1.0 0.0 0.317	
382	372	365	1.0 0.0	0.3 46.7 72.0 29.7 77.9 382	1.0 0.0	0.569 46.9 74.7 15.9 76.3 372	1.0 0.0 0.3	1.0 0.0	0.767 47.0 76.5 7.3 76.9 365	1.0 0.0 0.3	
383	373	366	1.0 0.0	0.283 46.7 71.9 30.7 78.2 383	1.0 0.0	0.54 46.8 74.4 17.2 76.4 373	1.0 0.0 0.283	1.0 0.0	0.73 47.0 76.2 8.7 76.7 366	1.0 0.0 0.283	
383	374	367	1.0 0.0	0.266 46.6 71.8 31.6 78.4 383	1.0 0.0	0.512 46.8 74.1 18.5 76.4 374	1.0 0.0 0.267	1.0 0.0	0.696 47.0 75.9 10.2 76.6 367	1.0 0.0 0.267	
384	375	368	1.0 0.0	0.25 46.6 71.6 32.5 78.7 384	1.0 0.0	0.485 46.8 73.9 19.8 76.5 375	1.0 0.0 0.25	1.0 0.0	0.663 47.0 75.5 11.7 76.4 368	1.0 0.0 0.25	
384	376	369	1.0 0.0	0.233 46.6 71.6 33.3 79.0 384	1.0 0.0	0.461 46.8 73.6 21.1 76.6 376	1.0 0.0 0.233	1.0 0.0	0.629 46.9 75.2 13.1 76.3 369	1.0 0.0 0.233	
385	377	370	1.0 0.0	0.216 46.6 71.5 34.2 79.3 385	1.0 0.0	0.436 46.9 73.3 22.4 76.6 377	1.0 0.0 0.217	1.0 0.0	0.597 46.9 74.9 14.6 76.3 370	1.0 0.0 0.217	
386	378	372	1.0 0.0	0.2 46.6 71.4 35.0 79.6 386	1.0 0.0	0.411 46.9 73.0 23.7 76.7 378	1.0 0.0 0.2	1.0 0.0	0.565 46.9 74.6 16.0 76.3 372	1.0 0.0 0.2	
386	379	373	1.0 0.0	0.183 46.6 71.3 35.9 79.9 386	1.0 0.0	0.387 46.9 72.6 25.0 76.8 379	1.0 0.0 0.183	1.0 0.0	0.534 46.8 74.3 17.5 76.4 373	1.0 0.0 0.183	
387	380	374	1.0 0.0	0.166 46.5 71.2 36.7 80.2 387	1.0 0.0	0.362 46.9 72.4 26.4 77.1 380	1.0 0.0 0.167	1.0 0.0	0.502 46.8 74.0 18.9 76.4 374	1.0 0.0 0.167	
387	381	375	1.0 0.0	0.15 46.5 71.1 37.6 80.4 387	1.0 0.0	0.336 46.8 72.3 27.8 77.5 381	1.0 0.0 0.15	1.0 0.0	0.474 46.8 73.7 20.4 76.5 375	1.0 0.0 0.15	
388	382	376	1.0 0.0	0.133 46.5 71.0 38.5 80.7 388	1.0 0.0	0.311 46.8 72.2 29.2 77.8 382	1.0 0.0 0.133	1.0 0.0	0.447 46.8 73.4 21.8 76.6 376	1.0 0.0 0.133	
389	383	377	1.0 0.0	0.116 46.5 70.9 39.3 81.0 389	1.0 0.0	0.286 46.7 72.0 30.6 78.2 383	1.0 0.0 0.117	1.0 0.0	0.419 46.9 73.1 23.3 76.7 377	1.0 0.0 0.117	
389	384	378	1.0 0.0	0.1 46.5 70.8 40.1 81.4 389	1.0 0.0	0.261 46.7 71.8 32.0 78.6 384	1.0 0.0 0.1	1.0 0.0	0.392 46.9 72.7 24.7 76.8 378	1.0 0.0 0.1	
390	385	379	1.0 0.0	0.083 46.5 70.7 40.9 81.7 390	1.0 0.0	0.233 46.6 71.6 33.4 79.0 385	1.0 0.0 0.083	1.0 0.0	0.364 46.9 72.4 26.2 77.0 379	1.0 0.0 0.083	
390	386	381	1.0 0.0	0.066 46.4 70.7 41.7 82.0 390	1.0 0.0	0.204 46.6 71.5 34.9 79.5 386	1.0 0.0 0.067	1.0 0.0	0.336 46.8 72.3 27.8 77.5 381	1.0 0.0 0.067	
391	387	382	1.0 0.0	0.049 46.4 70.6 42.5 82.4 391	1.0 0.0	0.176 46.6 71.3 36.3 80.0 387	1.0 0.0 0.05	1.0 0.0	0.308 46.8 72.1 29.3 77.9 382	1.0 0.0 0.05	
391	388	383	1.0 0.0	0.033 46.4 70.5 43.3 82.7 391	1.0 0.0	0.147 46.6 71.1 37.8 80.5 388	1.0 0.0 0.033	1.0 0.0	0.28 46.7 71.9 30.9 78.3 383	1.0 0.0 0.033	
392	389	384	1.0 0.0	0.016 46.4 70.4 44.1 83.0 392	1.0 0.0	0.117 46.6 70.9 39.3 81.1 389	1.0 0.0 0.017	1.0 0.0	0.251 46.6 71.7 32.5 78.7 384	1.0 0.0 0.017	
392	390	385	1.0 0.0	0.0 46.4 70.3 44.9 83.4 392	R_d 1.0 0.0	0.084 46.5 70.8 40.9 81.7 390	R_s 1.0 0.0 0.0	1.0 0.0	0.219 46.6 71.6 34.1 79.3 385	R_e 1.0 0.0 0.0	

1-0031631-L0 SE170-70 LAB*la0, YN=0%, XYZnw=3.5, 4.0, 6.0, 86.2, 91.2, 96.3, LAB*nmw=23.6, 0.0, 0.0, 96.5, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 17/33

TUB-test chart SE17; 1080 colours, offset standard paper
48 step hue circles; $rgb-LabCh$ *tables, 3D=0, de=0, cmy0

input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmy0_d$

TUB registration: 20130201-SE17/SE17L0NA.TXT /PS
application for measurement of offset print output, separation cmy0 (CMY0)
TUB material: code=rha4ta

http://130.149.60.45/~farbmetrik/SE17/SE17L0NA.TXT /.PS; transfer output

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 19/33

see similar files: <http://130.149.60.45/~farbmetrik/SE17/SE17.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

n/f	HIC*Fd	rgb_Fd	ict_Fd	hsi_Fd	rgb*Fd	LabCh*Fd	rgb**Fd	LabCh**Fd	DE**Fd	hsiMd	rgb*Md	LabCh*Md	
0/648	R00Y_100_100a	1.0	0.0	0.0	1.0	1.0	0.0	0.0	46.4	70.3	44.9	83.4	32.5
1/666	R25Y_100_100a	1.0	0.25	0.0	1.0	1.0	0.253	0.0	54.8	51.4	54.3	74.8	45.4
2/684	R50Y_100_100a	1.0	0.5	0.0	1.0	1.0	0.5	0.0	66.4	28.5	66.7	72.5	66.8
3/702	R75Y_100_100a	1.0	0.75	0.0	1.0	1.0	0.756	0.0	79.7	5.8	81.0	81.2	85.8
4/720	Y00G_100_100a	1.0	1.0	0.0	1.0	1.0	1.0	0.0	88.0	-6.8	89.7	90.0	94.3
5/558	Y25G_100_100a	0.75	1.0	0.0	1.0	1.0	0.766	0.0	80.5	-14.0	77.6	78.9	100.2
6/396	Y50G_100_100a	0.5	1.0	0.0	1.0	1.0	0.5	1.0	70.6	-26.9	62.2	67.8	113.3
7/234	Y75G_100_100a	0.25	1.0	0.0	1.0	1.0	0.233	1.0	58.4	-46.3	44.5	135.8	1.6
8/72	G00B_100_100a	0.0	1.0	0.0	1.0	1.0	0.0	1.0	49.6	-65.0	27.6	70.6	157.0
9/72	G00B_100_100a	0.0	1.0	0.0	1.0	1.0	0.0	1.0	49.6	-65.0	27.6	70.6	157.0
10/76	G25B_100_100a	0.0	1.0	0.5	1.0	1.0	0.5	0.5	53.0	-48.2	-10.8	49.4	192.6
11/80	G50B_100_100a	0.0	1.0	1.0	1.0	1.0	0.5	1.0	57.0	-29.7	-39.8	49.7	233.2
12/44	G75B_100_100a	0.0	0.5	1.0	1.0	1.0	0.5	1.0	43.1	-6.3	-39.3	39.8	260.8
13/8	B00M_100_100a	0.0	0.0	1.0	1.0	1.0	0.0	0.0	25.8	26.0	-38.7	46.7	303.9
14/332	B25R_100_100a	0.5	0.0	1.0	1.0	1.0	0.5	0.0	36.7	56.5	-19.8	59.9	340.6
15/656	B50R_100_100a	1.0	0.0	1.0	1.0	1.0	0.5	0.0	47.2	78.3	-0.6	78.3	359.5
16/652	B75R_100_100a	1.0	0.0	0.5	1.0	1.0	0.5	0.0	46.7	74.0	19.0	76.4	14.4
17/648	R00Y_100_100a	1.0	0.0	0.0	1.0	1.0	0.0	0.0	46.4	70.3	44.9	83.4	32.5
18/688	R00Y_100_050a	1.0	0.5	0.5	1.0	0.5	0.5	0.5	69.5	29.5	25.7	39.2	41.0
19/706	R50Y_100_050a	1.0	0.75	0.5	1.0	0.5	0.75	0.5	81.8	9.9	31.4	32.9	72.4
20/724	Y00G_100_050a	1.0	1.0	0.5	1.0	0.5	1.0	0.5	92.2	-5.1	37.4	37.8	97.7
21/562	Y50G_100_050a	0.75	1.0	0.5	1.0	0.5	0.75	1.0	84.5	-11.7	27.5	29.9	113.1
22/400	G00B_100_050a	0.5	1.0	0.5	1.0	0.5	0.5	1.0	74.3	-22.0	15.9	27.2	144.2
23/404	G50B_100_050a	0.5	1.0	1.0	1.0	0.5	0.5	1.0	79.1	-12.5	-17.7	21.7	234.6
24/368	B00R_100_050a	0.5	0.5	1.0	1.0	0.5	0.5	1.0	59.3	15.8	-19.5	25.1	309.1
25/692	B50R_100_050a	1.0	0.5	1.0	1.0	0.5	1.0	0.5	72.2	33.6	-3.5	33.8	353.9
26/688	R00Y_100_050a	1.0	0.5	0.5	1.0	0.5	0.5	0.5	69.5	29.5	25.7	39.2	41.0
27/506	R00Y_075_050a	0.75	0.25	0.25	0.75	0.5	0.75	0.25	51.4	39.0	30.3	49.5	37.8
28/524	R50Y_075_050a	0.75	0.5	0.25	0.75	0.5	0.5	0.25	62.5	18.2	36.9	41.2	63.7
29/542	Y00G_075_050a	0.75	0.75	0.25	0.75	0.5	0.75	0.25	73.0	0.1	44.0	44.0	89.8
30/380	Y50G_075_050a	0.5	0.75	0.25	0.75	0.5	0.5	0.25	64.2	-11.6	32.1	34.1	109.9
31/218	G00B_075_050a	0.25	0.75	0.25	0.75	0.5	0.25	0.75	54.1	-27.6	18.3	33.1	146.4
32/222	G50B_075_050a	0.25	0.75	0.75	0.75	0.5	0.25	0.75	57.1	-15.7	-16.9	23.0	227.1
33/186	B00R_075_050a	0.25	0.25	0.75	0.75	0.5	0.25	0.75	38.8	16.1	-20.2	25.9	308.6
34/510	B50R_075_050a	0.75	0.25	0.75	0.75	0.5	0.75	0.25	53.8	42.9	0.3	42.9	0.4
35/506	R00Y_075_050a	0.75	0.25	0.25	0.75	0.5	0.75	0.25	51.4	39.0	30.3	49.5	37.8
36/324	R00Y_050_050a	0.5	0.0	0.0	0.5	0.5	0.5	0.0	35.3	44.4	23.5	50.3	27.9
37/342	R50Y_050_050a	0.5	0.25	0.0	0.5	0.5	0.25	0.0	44.3	23.4	33.7	41.0	55.1
38/360	Y00G_050_050a	0.5	0.5	0.0	0.5	0.5	0.5	0.0	53.8	3.3	43.7	43.8	85.6
39/198	Y50G_050_050a	0.25	0.5	0.0	0.5	0.5	0.25	0.0	44.3	-15.5	28.9	32.8	118.3
40/36	G00B_050_050a	0.0	0.5	0.0	0.5	0.5	0.0	0.5	37.8	-38.1	15.3	41.1	158.0
41/40	G50B_050_050a	0.0	0.5	0.5	0.5	0.5	0.0	0.5	40.3	-22.8	-14.8	27.1	212.9
42/4	B00R_050_050a	0.0	0.0	0.5	0.5	0.5	0.0	0.5	24.6	11.7	-20.3	23.5	300.0
43/328	B50R_050_050a	0.5	0.0	0.5	0.5	0.5	0.5	0.0	35.8	49.8	0.0	49.8	359.9
44/324	R00Y_050_050a	0.5	0.0	0.0	0.5	0.5	0.5	0.0	35.3	44.4	23.5	50.3	27.9
45/0	NW_000a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.6	0.0	0.0	0.0	0.0
46/91	NW_013a	0.125	0.125	0.125	0.125	0.0	0.125	0.125	30.1	5.2	2.9	6.0	29.1
47/182	NW_025a	0.25	0.25	0.25	0.25	0.0	0.25	0.25	36.9	6.3	5.2	8.2	39.4
48/273	NW_038a	0.375	0.375	0.375	0.375	0.0	0.375	0.375	46.5	9.0	9.2	12.9	45.3
49/364	NW_050a	0.5	0.5	0.5	0.5	0.0	0.5	0.5	56.1	7.9	7.5	10.9	43.3
50/455	NW_063a	0.625	0.625	0.625	0.625	0.0	0.625	0.625	66.2	6.3	7.3	9.7	49.3
51/546	NW_075a	0.75	0.75	0.75	0.75	0.0	0.75	0.75	77.0	4.8	4.7	6.7	44.2
52/637	NW_088a	0.875	0.875	0.875	0.875	0.0	0.875	0.875	87.6	1.8	2.2	2.9	51.0
53/728	NW_100a	1.0	1.0	1.0	1.0	0.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0

Mean color difference of this page:

delta E* = 4.3

TUB registration: 20130201-SE17/SE17L0NA.TXT /.PS
application for measurement of offset print output, separationcmy0 (CMY0)
TUB material: code=rha4taTUB-test chart SE17; 1080 colours, offset standard paper
colors and differences, ΔE^* , 3D=0, de=0, cmy0input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmy0_d$

http://130.149.60.45/~farbmetrik/SE17/SE17L0NA.TXT /.PS; transfer output

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

see similar files: <http://130.149.60.45/~farbmetrik/SE17/SE17.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>TUB registration: 20130201-SE17/SE17L0NA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separationcmY0 (CMY0)

n	HIC*Fd	rgb_Fd		ict_Fd		hsi_Fd		rgb*Fd		LabCh*Fd			rgb**Fd		LabCh**Fd			DE**Fd		hsiM,d	rgb*Md		LabCh*Md											
1053	NW_086d	0.866	0.866	0.866	0.866	0.0	0.866	360	0.866	0.866	0.866	86.7	0.0	0.0	0.0	0.866	0.866	0.866	87.1	1.5	2.6	3.0	58.7	3.0	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1054	NW_093d	0.933	0.933	0.933	0.933	0.0	0.933	360	0.933	0.933	0.933	91.5	0.0	0.0	0.0	0.933	0.933	0.933	91.8	0.6	1.0	1.1	58.2	1.2	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1055	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	1.0	1.0	1.0	96.3	0.0	0.0	0.0	292.0	0.1	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1056	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	23.6	0.0	0.0	0.0	0.0	0.0	0.0	22.4	0.4	0.0	0.4	358.7	1.2	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1057	NW_006d	0.066	0.066	0.066	0.066	0.0	0.066	360	0.066	0.066	0.066	28.4	0.0	0.0	0.0	0.066	0.066	0.066	25.4	4.9	1.3	5.1	15.6	5.9	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1058	NW_013d	0.133	0.133	0.133	0.133	0.0	0.133	360	0.133	0.133	0.133	33.3	0.0	0.0	0.0	0.133	0.133	0.133	28.4	7.3	4.0	8.4	28.5	9.6	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1059	NW_020d	0.2	0.2	0.2	0.2	0.0	0.2	360	0.2	0.2	0.2	38.1	0.0	0.0	0.0	0.2	0.2	0.2	32.4	8.5	5.9	10.4	34.6	11.9	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1060	NW_026d	0.266	0.266	0.266	0.266	0.0	0.266	360	0.266	0.266	0.266	42.9	0.0	0.0	0.0	0.266	0.266	0.266	37.4	8.1	7.9	11.3	44.1	12.6	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1061	NW_033d	0.333	0.333	0.333	0.333	0.0	0.333	360	0.333	0.333	0.333	47.8	0.0	0.0	0.0	0.333	0.333	0.333	41.7	10.0	8.4	13.1	39.9	14.4	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1062	NW_040d	0.4	0.4	0.4	0.4	0.0	0.4	360	0.4	0.4	0.4	52.7	0.0	0.0	0.0	0.4	0.4	0.4	48.0	8.5	9.4	12.7	47.8	13.5	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1063	NW_046d	0.466	0.466	0.466	0.466	0.0	0.466	360	0.466	0.466	0.466	57.5	0.0	0.0	0.0	0.466	0.466	0.466	53.0	8.6	8.8	12.3	45.4	13.1	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1064	NW_053d	0.533	0.533	0.533	0.533	0.0	0.533	360	0.533	0.533	0.533	62.4	0.0	0.0	0.0	0.533	0.533	0.533	58.1	8.0	10.5	49.5	11.0	10.0	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1065	NW_060d	0.6	0.6	0.6	0.6	0.0	0.6	360	0.6	0.6	0.6	67.3	0.0	0.0	0.0	0.6	0.6	0.6	65.4	5.7	7.8	9.7	53.8	9.9	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1066	NW_066d	0.666	0.666	0.666	0.666	0.0	0.666	360	0.666	0.666	0.666	72.1	0.0	0.0	0.0	0.666	0.666	0.666	71.1	5.0	6.9	8.6	53.9	8.7	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1067	NW_073d	0.734	0.734	0.734	0.734	0.0	0.734	360	0.734	0.734	0.734	77.0	0.0	0.0	0.0	0.734	0.734	0.734	76.1	4.9	5.4	7.3	48.0	7.4	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1068	NW_080d	0.8	0.8	0.8	0.8	0.0	0.8	360	0.8	0.8	0.8	81.9	0.0	0.0	0.0	0.8	0.8	0.8	81.5	2.9	4.1	5.1	54.7	5.1	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1069	NW_086d	0.866	0.866	0.866	0.866	0.0	0.866	360	0.866	0.866	0.866	86.7	0.0	0.0	0.0	0.866	0.866	0.866	87.0	1.5	2.7	3.1	60.3	3.1	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1070	NW_093d	0.933	0.933	0.933	0.933	0.0	0.933	360	0.933	0.933	0.933	91.5	0.0	0.0	0.0	0.933	0.933	0.933	91.7	0.6	1.0	1.2	59.0	1.2	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1071	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	1.0	1.0	1.0	96.3	0.0	0.0	0.0	297.4	0.1	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1072	NW_000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	23.6	0.0	0.0	0.0	0.0	0.0	0.0	23.3	0.5	-0.7	0.9	305.3	0.9	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1073	NW_100d	1.0	1.0	1.0	1.0	0.0	1.0	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	1.0	1.0	1.0	96.5	0.0	0.1	0.1	115.8	0.1	360	1.0	1.0	1.0	96.4	0.0	0.0	0.0	0.0	
1074	R00Y_100_100d	1.0	0.0	0.0	1.0	1.0	0.5	390	1.0	0.0	0.0	46.4	70.3	44.9	83.4	32.5	1.0	0.0	0.0	46.3	70.0	46.4	84.0	33.5	1.5	389	1.0	0.0	0.0	46.4	70.3	44.9	83.4	32.5
1075	G50B_100_100d	0.0	1.0	1.0	1.0	1.0	0.5	210	0.0	1.0	1.0	57.0	-29.7	-39.8	49.7	233.2	0.0	1.0	1.0	56.8	-28.8	-40.9	50.1	234.8	1.3	210	0.0	1.0	1.0	57.0	-29.7	-39.8	49.7	233.2
1076	Y00G_100_100d	1.0	1.0	0.0	1.0	1.0	0.5	90	1.0	1.0	0.0	88.0	-6.8	89.7	90.0	94.3	1.0	1.0	0.0	87.8	-6.8	90.1	90.4	94.3	0.4	89	1.0	1.0	0.0	88.0	-6.8	89.7	90.0	94.3
1077	B00R_100_100d	0.0	0.0	1.0	1.0	1.0	0.5	270	0.0	0.0	1.0	25.8	26.0	-38.7	46.7	303.9	0.0	0.0	1.0	24.3	28.0	-38.0	47.2	306.4	2.6	270	0.0	0.0	1.0	25.8	26.0	-38.7	46.7	303.9
1078	G00B_100_100d	0.0	1.0	0.0	1.0	1.0	0.5	150	0.0	1.0	0.0	49.6	-65.0	27.6	70.6	157.0	0.0	1.0	0.0	48.8	-66.5	27.6	72.0	157.3	1.6	149	0.0	1.0	0.0	49.6	-65.0	27.6	70.6	157.0
1079	B50R_100_100d	1.0	0.0	1.0	1.0	1.0	0.5	330	1.0	0.0	1.0	47.2	78.3	-0.6	78.3	359.5	1.0	0.0	1.0	46.3	78.6	0.0	78.6	359.9	1.0	330	1.0	0.0	1.0	47.2	78.3	-0.6	78.3	359.5

Mean color difference of this page:

delta E* = 5.3

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SE170-7N, Page 33/33-F

TUB-test chart SE17; 1080 colours, offset standard paper
colors and differences, ΔE^* , 3D=0, de=0, cmy0input: $rgb/cmyk \rightarrow rgb_d$
output: transfer to $cmy0_d$

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