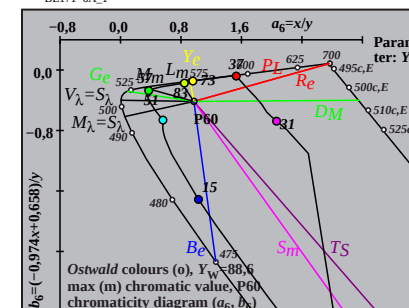
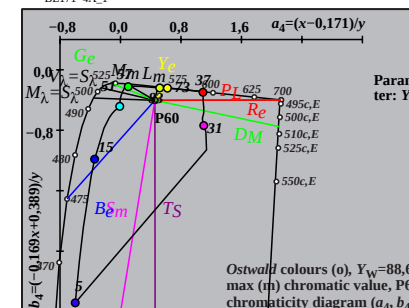
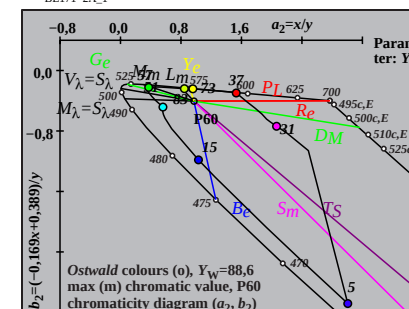
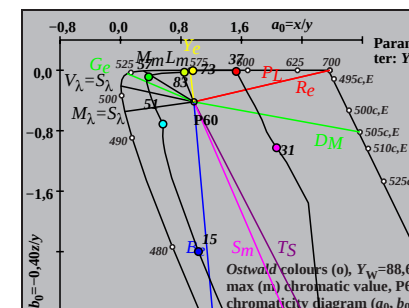
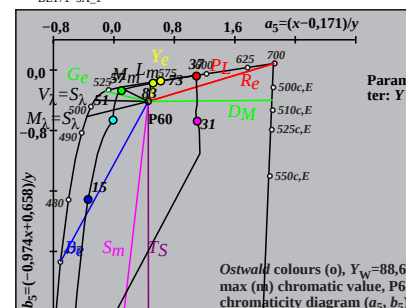
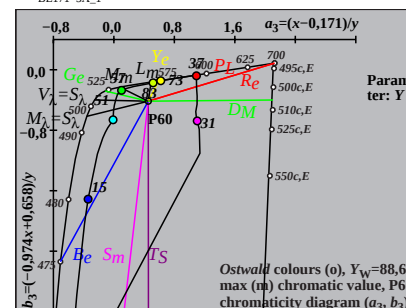
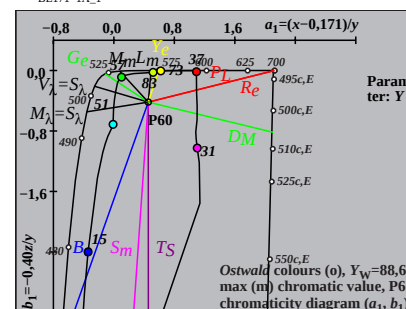
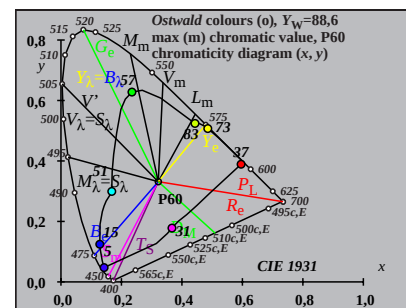


Ostwald optimal colours (o) of maximum (m) C_{AB} for P60, Y_w=88,6, Y_m=520_770

i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code
0	405	32	563	28.82	51.16	91.8	0.1678	0.2978	0.5343	192.3	16 483 38 590 Cm
6	435	32	563	25.32	51.64	72.68	0.1692	0.345	0.4856	174.9	17 487 44 621
10	450	33	565	20.2	52.18	42.4	0.1759	0.4545	0.3694	139.8	19 497 -1 497c
11	460	33	566	19.92	53.26	34.94	0.1842	0.4925	0.3231	130.4	20 502 -1 502c
13	465	33	568	18.67	53.76	21.75	0.1982	0.5707	0.2309	117.2	22 513 -1 513c
14	470	34	570	19.4	55.08	16.63	0.2129	0.6045	0.1825	111.7	24 521 -1 521c
15	475	34	574	21.44	57.31	12.55	0.2348	0.6277	0.1374	106.3	25 529 -1 529c Gm
15	480	36	580	26.34	61.97	12.56	0.2611	0.6143	0.1245	102.0	27 535 -1 535c
17	485	39	595	37.55	69.1	7.04	0.3303	0.6077	0.0619	88.2	29 549 -1 549c
18	490	-1	490c	70.6	83.47	5.25	0.4431	0.5238	0.0329	57.7	33 566 11 459 max
19	495	-1	495c	70.56	82.19	3.88	0.4504	0.5247	0.0247	56.3	33 567 12 461
20	500	-1	500c	70.54	80.59	2.81	0.4582	0.5234	0.0183	54.5	33 568 12 464
22	510	-1	510c	70.43	76.17	1.41	0.4758	0.5145	0.0095	49.9	34 570 13 469
24	520	-1	520c	69.86	70.05	0.71	0.4967	0.4981	0.005	43.5	34 572 14 473 Ym
25	530	-1	529c	69.26	66.47	0.49	0.5084	0.4879	0.0036	39.9	34 574 15 475
27	540	-1	539c	67.32	58.65	0.23	0.5334	0.4647	0.0018	32.1	35 578 15 478
29	545	-1	545c	64.25	50.34	0.11	0.5601	0.4388	0.001	24.2	36 582 16 480
29	550	-1	549c	64.25	50.34	0.11	0.5601	0.4388	0.001	24.2	36 582 16 480
30	555	-1	554c	62.26	46.13	0.08	0.5739	0.4252	0.0007	20.3	36 584 16 481
32	560	-1	560c	57.28	37.83	0.05	0.6019	0.3975	0.0005	13.2	37 589 16 483
32	563	0	405	68.24	48.83	12.76	0.5255	0.3761	0.0983	12.3	38 590 16 483 Rm
32	563	6	435	71.74	48.35	31.89	0.472	0.3181	0.2098	354.9	44 621 17 487
33	565	10	450	76.86	47.81	62.16	0.4113	0.2559	0.3327	319.8	-1 497c 19 497
33	566	11	460	77.14	46.73	69.62	0.3986	0.2415	0.3598	310.5	-1 502c 20 502
33	568	13	465	78.39	46.23	82.82	0.3778	0.2228	0.3992	297.3	-1 513c 22 513
34	570	14	470	77.66	44.91	87.94	0.3689	0.2133	0.4177	291.7	-1 521c 24 521
34	574	15	475	75.62	42.68	92.02	0.3595	0.2029	0.4375	286.4	-1 529c 25 529 Mm
36	580	15	480	70.72	38.02	92.01	0.3522	0.1894	0.4583	282.1	-1 535c 27 535
39	595	17	485	59.51	30.89	97.52	0.3166	0.1644	0.5189	268.2	-1 549c 29 549
-1	490c	18	490	26.46	16.52	99.31	0.1859	0.1161	0.6978	237.7	11 459 33 566 min
-1	495c	19	495	26.5	17.8	100.69	0.1828	0.1227	0.6944	236.3	12 461 33 567
-1	500c	20	500	26.52	19.4	101.75	0.1795	0.1314	0.6889	234.6	12 464 33 568
-1	510c	22	510	26.63	23.82	103.15	0.1733	0.155	0.6715	229.9	13 469 34 570
-1	520c	24	520	27.2	29.94	103.86	0.1689	0.1859	0.645	223.6	14 473 34 572 Bm
-1	529c	25	530	27.8	33.52	104.07	0.168	0.2026	0.6292	219.9	15 475 34 574
-1	539c	27	540	29.74	41.34	104.33	0.1695	0.2356	0.5947	212.2	15 478 35 578
-1	545c	29	545	32.81	49.65	104.45	0.1755	0.2656	0.5587	204.2	16 480 36 582
-1	549c	29	550	32.81	49.65	104.45	0.1755	0.2656	0.5587	204.2	16 480 36 582
-1	554c	30	555	34.8	53.86	104.48	0.1802	0.2788	0.5409	200.4	16 481 36 584
-1	560c	32	560	39.78	62.16	104.52	0.1926	0.301	0.5062	193.2	16 483 37 589
380	770	85.99	88.58	92.64	0.3218	0.3315	0.3466	0.0			

TUB-test chart BE17; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant P60; diagram for illuminant P60, Y_w=88,6



input: w/rgb/cmyk -> rgb

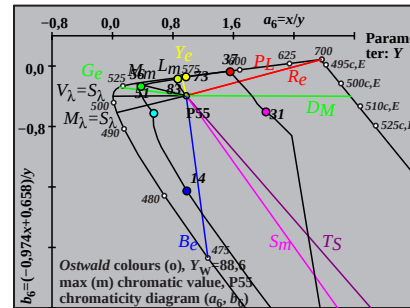
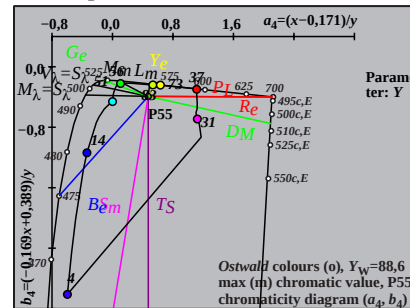
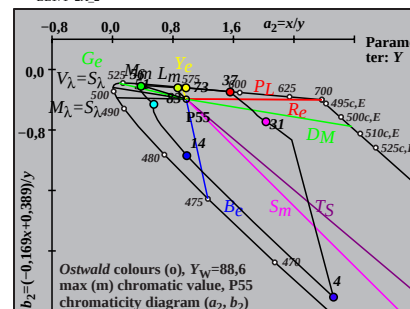
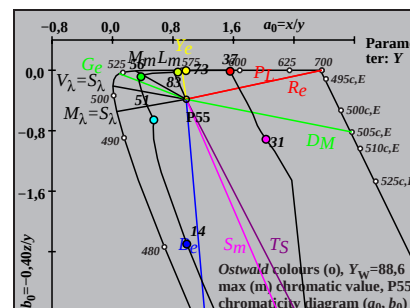
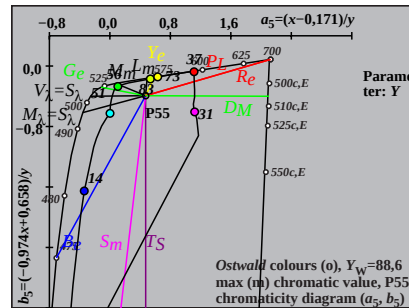
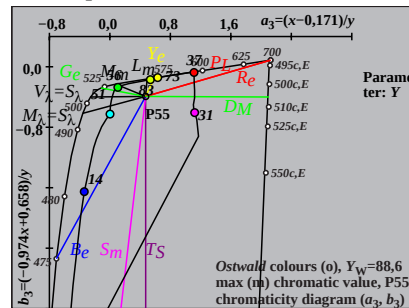
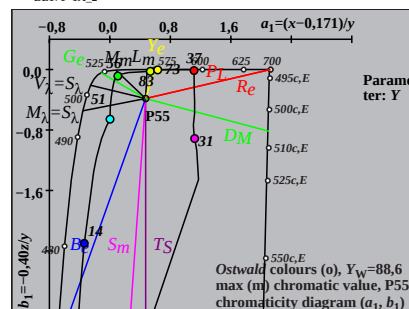
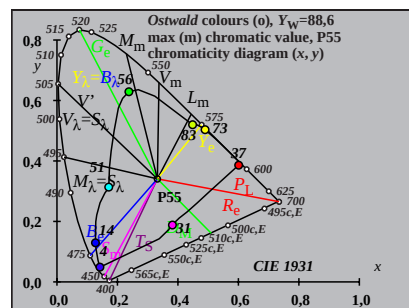
Ostwald optimal colours (o) of maximum (m) C_{AB} for P55, $Y_w=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
1 405	32 564	27.86	51.0	83.74	0.1713	0.3136	0.5149	189.5	16 484	38 591	Cm
6 435	32 564	24.87	51.45	67.28	0.1732	0.3582	0.4685	173.7	17 488	43 619	
9 450	33 565	21.58	52.1	46.77	0.1791	0.4325	0.3882	149.0	18 494	-1 494c	
11 460	33 567	20.01	52.91	32.86	0.1891	0.5002	0.3106	131.8	20 502	-1 502c	
13 465	33 568	18.84	53.36	20.61	0.203	0.5749	0.222	118.8	22 513	-1 513c	
14 470	34 570	19.51	54.56	15.82	0.2171	0.6069	0.1759	113.3	24 521	-1 521c	
15 475	34 574	21.38	56.6	11.99	0.2376	0.629	0.1332	108.1	25 529	-1 529c	Gm
16 480	36 580	25.47	60.22	9.02	0.2689	0.6357	0.0953	102.0	27 537	-1 537c	
17 485	38 592	35.33	67.08	6.78	0.3236	0.6142	0.0621	91.7	29 547	-1 547c	
17 490	-1 489c	72.4	84.76	6.79	0.4415	0.5169	0.0414	58.1	33 566	11 456	max
19 495	-1 495c	72.26	82.56	3.76	0.4556	0.5205	0.0237	55.4	33 567	12 462	
19 500	-1 499c	72.26	82.56	3.76	0.4556	0.5205	0.0237	55.4	33 567	12 462	
21 510	-1 509c	72.22	79.1	1.96	0.4711	0.516	0.0128	51.5	33 569	13 467	
24 520	-1 520c	71.58	70.78	0.7	0.5003	0.4947	0.0049	42.4	34 573	14 474	Ym
26 530	-1 530c	70.17	63.52	0.34	0.5235	0.4739	0.0025	34.8	35 576	15 477	
27 540	-1 539c	69.08	59.57	0.23	0.5359	0.4621	0.0018	30.7	35 578	15 479	
28 545	-1 544c	67.71	55.48	0.16	0.5488	0.4497	0.0013	26.6	36 580	16 480	
30 550	-1 550c	64.04	47.12	0.08	0.5756	0.4235	0.0007	18.7	37 585	16 482	
30 555	-1 554c	64.04	47.12	0.08	0.5756	0.4235	0.0007	18.7	37 585	16 482	
32 560	-1 560c	59.06	38.79	0.05	0.6032	0.3962	0.0005	11.5	38 590	16 484	
32 564	1 405	69.59	48.99	12.24	0.5319	0.3744	0.0935	9.5	38 591	16 484	Rm
32 564	6 435	72.58	48.54	28.7	0.4844	0.324	0.1915	353.7	43 619	17 488	
33 565	9 450	75.87	47.89	49.21	0.4386	0.2768	0.2844	329.0	-1 494c	18 494	
33 567	11 460	77.44	47.08	63.12	0.4127	0.2509	0.3363	311.9	-1 502c	20 502	
33 568	13 465	78.61	46.63	75.37	0.3918	0.2324	0.3757	298.9	-1 513c	22 513	
34 570	14 470	77.93	45.43	80.16	0.3829	0.2232	0.3938	293.4	-1 521c	24 521	
34 574	15 475	76.07	43.39	83.99	0.3738	0.2132	0.4128	288.1	-1 529c	25 529	Mm
36 580	16 480	71.98	39.77	86.95	0.3622	0.2001	0.4375	282.1	-1 537c	27 537	
38 592	17 485	62.11	32.91	89.2	0.3371	0.1786	0.4841	271.8	-1 547c	29 547	
-1 489c	17 490	25.04	15.23	89.19	0.1934	0.1176	0.6888	238.1	11 456	33 566	min
-1 495c	19 495	25.18	17.43	92.21	0.1868	0.1292	0.6839	235.5	12 462	33 567	
-1 499c	19 500	25.18	17.43	92.21	0.1868	0.1292	0.6839	235.5	12 462	33 567	
-1 509c	21 510	25.22	20.89	94.02	0.18	0.149	0.6709	231.5	13 467	33 569	
-1 520c	24 520	25.87	29.21	95.28	0.172	0.1942	0.6336	222.4	14 474	34 573	Bm
-1 530c	26 530	27.28	36.47	95.64	0.1711	0.2288	0.6	214.8	15 477	35 576	
-1 539c	27 540	28.37	40.42	95.74	0.1724	0.2456	0.5818	210.7	15 479	35 578	
-1 544c	28 545	29.74	44.51	95.82	0.1748	0.2617	0.5633	206.7	16 480	36 580	
-1 550c	30 550	33.4	52.87	95.89	0.1833	0.2902	0.5263	198.7	16 482	37 585	
-1 554c	30 555	33.4	52.87	95.89	0.1833	0.2902	0.5263	198.7	16 482	37 585	
-1 560c	32 560	38.39	61.2	95.93	0.1963	0.313	0.4906	191.5	16 484	38 590	
380	770	86.33	88.59	85.03	0.3321	0.3407	0.327	0.0			

TUB-test chart BE17; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant P55; diagram for illuminant P55, $Y_w=88,6$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE17/BE17L0NP.PDF /.PS
application for measurement of offset print output

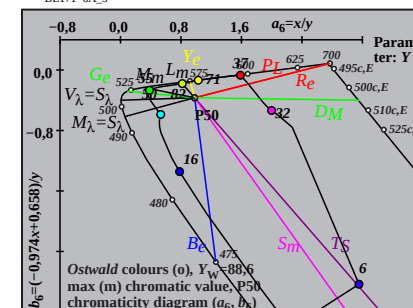
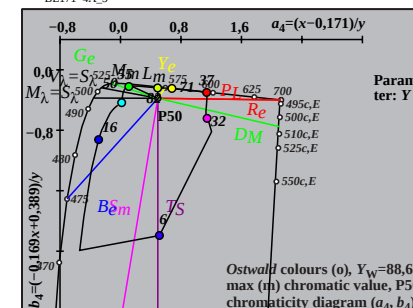
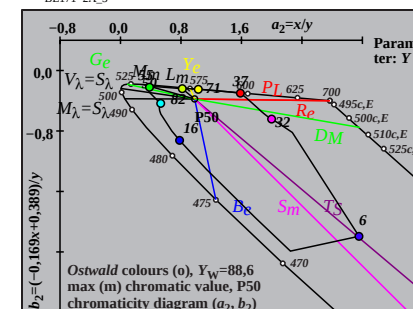
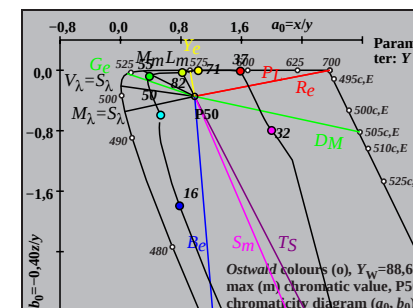
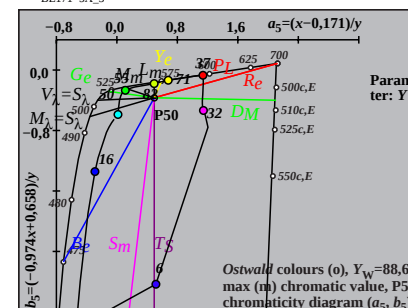
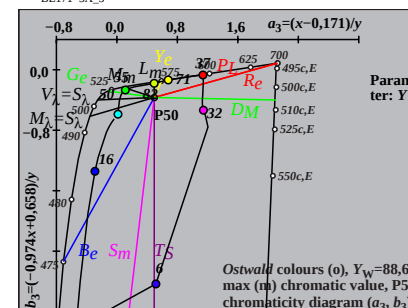
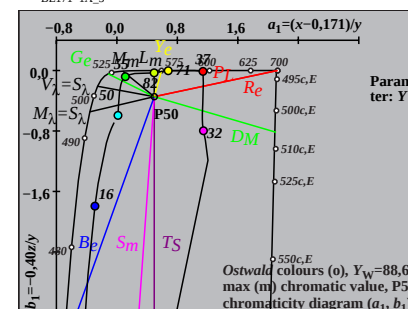
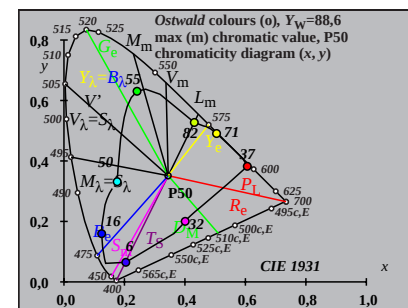
TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) C_{AB} for P50, $Y_w=88,6$, $Y_m=520-770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
0 405	33 565	27.1	50.81	76.02	0.176	0.33	0.4938	187.1	17 485	38 592	Cm
7 435	33 565	23.29	51.12	55.47	0.1793	0.3935	0.427	165.6	18 490	-1 490c	
9 450	33 566	21.56	51.77	43.02	0.1853	0.4449	0.3697	149.5	19 495	-1 495c	
11 460	33 568	20.14	52.5	30.47	0.1953	0.5091	0.2955	133.4	20 502	-1 502c	
12 465	33 569	19.9	53.21	24.56	0.2037	0.5447	0.2514	126.0	21 507	-1 507c	
14 470	34 571	19.7	53.96	14.88	0.2224	0.6094	0.168	115.3	24 520	-1 520c	
15 475	34 574	21.36	55.78	11.33	0.2414	0.6304	0.128	110.2	25 528	-1 528c	Gm
16 480	35 579	24.99	58.98	8.57	0.27	0.6373	0.0926	104.6	27 536	-1 536c	
16 485	37 589	33.43	65.71	8.58	0.3103	0.6099	0.0796	97.5	28 544	-1 544c	
17 490	47 636	67.3	82.37	6.48	0.431	0.5274	0.0415	63.8	33 565	-1 565c	max
19 495	-1 495c	74.35	82.99	3.62	0.4618	0.5155	0.0225	54.4	33 568	12 462	
20 500	-1 500c	74.33	81.53	2.65	0.4689	0.5143	0.0167	52.6	33 569	13 465	
21 510	-1 509c	74.31	79.69	1.9	0.4766	0.5111	0.0122	50.4	34 570	13 468	
24 520	-1 520c	73.69	71.65	0.69	0.5046	0.4906	0.0047	41.0	34 574	14 474	Ym
26 530	-1 530c	72.31	64.55	0.33	0.527	0.4704	0.0024	33.1	35 577	15 478	
28 540	-1 540c	69.88	56.62	0.16	0.5516	0.447	0.0013	24.8	36 581	16 481	
28 545	-1 544c	69.88	56.62	0.16	0.5516	0.447	0.0013	24.8	36 581	16 481	
30 550	-1 550c	66.24	48.31	0.08	0.5778	0.4214	0.0007	16.7	37 585	16 483	
30 555	-1 554c	66.24	48.31	0.08	0.5778	0.4214	0.0007	16.7	37 585	16 483	
32 560	-1 560c	61.23	39.96	0.05	0.6047	0.3947	0.0005	9.4	38 590	17 485	
33 565	0 405	71.01	49.18	10.47	0.5434	0.3763	0.0801	7.1	38 592	17 485	Rm
33 565	7 435	74.82	48.87	31.02	0.4835	0.3158	0.2005	345.6	-1 490c	18 490	
33 566	9 450	76.55	48.22	43.47	0.455	0.2866	0.2583	329.6	-1 495c	19 495	
33 568	11 460	77.97	47.49	56.02	0.4296	0.2616	0.3086	313.4	-1 502c	20 502	
33 569	12 465	78.21	46.78	61.93	0.4184	0.2502	0.3313	306.1	-1 507c	21 507	
34 571	14 470	78.42	46.03	71.61	0.3999	0.2347	0.3652	295.3	-1 520c	24 520	
34 574	15 475	76.75	44.21	75.16	0.3913	0.2254	0.3832	290.3	-1 528c	25 528	Mm
35 579	16 480	73.12	41.01	77.92	0.3807	0.2135	0.4057	284.6	-1 536c	27 536	
37 589	16 485	64.68	34.28	77.91	0.3656	0.1938	0.4404	277.6	-1 544c	28 544	
47 636	17 490	30.81	17.62	80.01	0.2398	0.1372	0.6229	243.9	-1 565c	33 565	min
-1 495c	19 495	23.76	17.0	82.87	0.1922	0.1375	0.6702	234.5	12 462	33 568	
-1 500c	20 500	23.78	18.46	83.84	0.1886	0.1464	0.6649	232.7	13 465	33 569	
-1 509c	21 510	23.8	20.3	84.59	0.1849	0.1577	0.6572	230.4	13 468	34 570	
-1 520c	24 520	24.42	28.34	85.8	0.1762	0.2045	0.6191	221.0	14 474	34 574	Bm
-1 530c	26 530	25.8	35.44	86.16	0.175	0.2404	0.5844	213.1	15 478	35 577	
-1 540c	28 540	28.23	43.37	86.33	0.1787	0.2745	0.5466	204.8	16 481	36 581	
-1 544c	28 545	28.23	43.37	86.33	0.1787	0.2745	0.5466	204.8	16 481	36 581	
-1 550c	30 550	31.88	51.68	86.41	0.1875	0.304	0.5083	196.7	16 483	37 585	
-1 554c	30 555	31.88	51.68	86.41	0.1875	0.304	0.5083	196.7	16 483	37 585	
-1 560c	32 560	36.88	60.03	86.44	0.2011	0.3273	0.4714	189.4	17 485	38 590	
380	770	86.92	88.59	76.63	0.3447	0.3513	0.3039	0.0			

TUB-test chart BE17; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant P50; diagram for illuminant P50, $Y_w=88,6$



TUB registration: 20170801-BE17/BE17L0NP.PDF / .PS
- application for measurement of offset print output

TUB material: code=rha4ta

input: w/rgb/cmyk $\rightarrow$ rgb

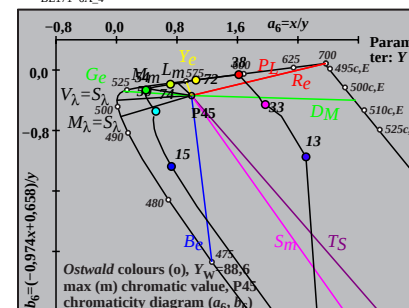
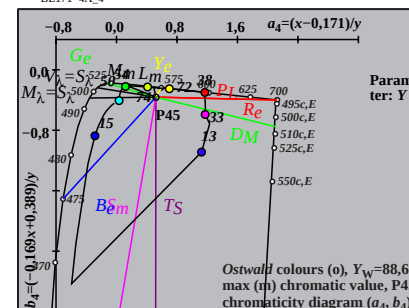
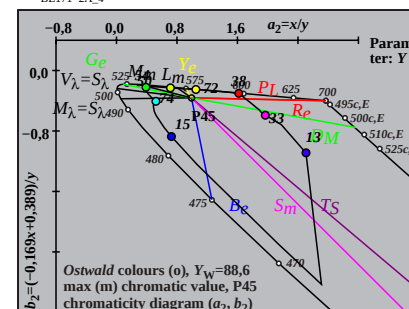
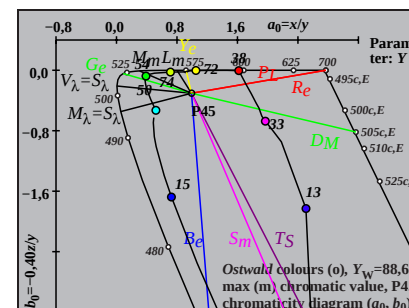
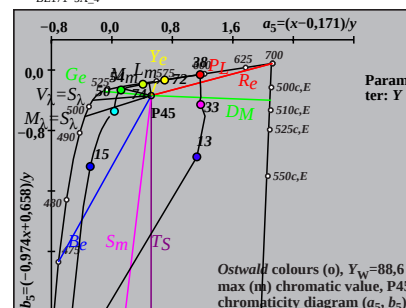
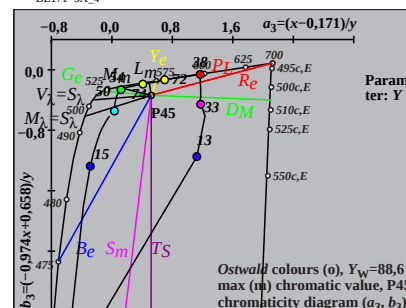
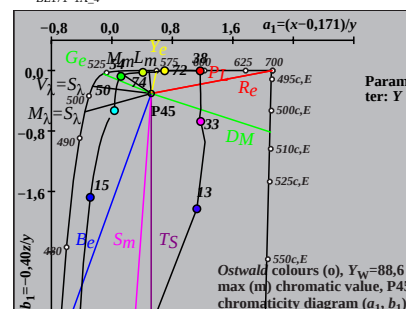
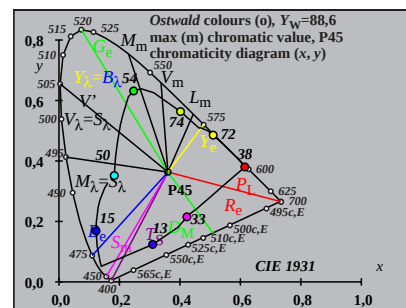
Ostwald optimal colours (o) of maximum (m) C_{AB} for P45, $Y_w=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
1 405	33 566	26.19	50.51	66.5	0.1829	0.3527	0.4643	183.4	17 487	38 593	Cm
7 435	33 567	23.08	50.79	49.56	0.1869	0.4114	0.4015	164.4	18 491	-1 491c	
10 450	33 568	20.55	51.23	33.24	0.1957	0.4877	0.3165	142.8	19 498	-1 498c	
12 460	33 569	19.44	51.78	22.48	0.2074	0.5525	0.2399	128.9	21 507	-1 507c	
13 465	34 570	19.39	52.35	17.76	0.2166	0.5848	0.1984	122.9	22 512	-1 512c	
13 470	34 571	20.54	53.6	17.76	0.2235	0.5831	0.1932	121.8	22 514	-1 514c	
15 475	34 574	21.42	54.84	10.55	0.2467	0.6316	0.1216	112.9	25 528	-1 528c	Gm
15 480	35 578	24.84	58.15	10.56	0.2655	0.6215	0.1129	110.1	26 532	-1 532c	
17 485	37 587	31.4	62.69	6.09	0.3134	0.6256	0.0608	100.1	28 544	-1 544c	
17 490	42 611	53.57	75.71	6.11	0.3956	0.5592	0.0451	79.7	31 559	-1 559c	max
19 495	-1 495c	76.94	83.48	3.45	0.4694	0.5094	0.021	53.2	33 569	12 463	
20 500	-1 500c	76.93	82.11	2.54	0.4761	0.5081	0.0157	51.3	34 570	13 466	
22 510	-1 510c	76.83	78.22	1.31	0.4913	0.5002	0.0084	46.2	34 572	14 471	Ym
24 520	-1 520c	76.31	72.67	0.67	0.5098	0.4855	0.0045	39.2	34 574	15 475	
26 530	-1 530c	74.97	65.78	0.33	0.5313	0.4662	0.0023	31.0	35 578	15 479	
27 540	-1 539c	73.92	61.98	0.23	0.5429	0.4552	0.0017	26.7	35 579	16 480	
29 545	-1 545c	70.94	53.92	0.11	0.5676	0.4314	0.0009	18.1	36 583	16 483	
29 550	-1 549c	70.94	53.92	0.11	0.5676	0.4314	0.0009	18.1	36 583	16 483	
30 555	-1 554c	68.97	49.76	0.08	0.5804	0.4187	0.0007	14.1	37 585	16 484	
31 560	-1 559c	66.65	45.57	0.06	0.5935	0.4058	0.0006	10.3	37 588	17 485	
33 566	1 405	73.0	49.48	9.56	0.5528	0.3747	0.0724	3.4	38 593	17 487	Rm
33 567	7 435	76.12	49.2	26.5	0.5013	0.324	0.1745	344.4	-1 491c	18 491	
33 568	10 450	78.64	48.76	42.82	0.4619	0.2864	0.2515	322.9	-1 498c	19 498	
33 569	12 460	79.76	48.21	53.58	0.4393	0.2655	0.2951	308.9	-1 507c	21 507	
34 570	13 465	79.81	47.64	58.3	0.4296	0.2564	0.3138	303.0	-1 512c	22 512	
34 571	13 470	78.65	46.39	58.3	0.4289	0.253	0.3179	301.9	-1 514c	22 514	
34 574	15 475	77.78	45.15	65.51	0.4127	0.2396	0.3476	292.9	-1 528c	25 528	Mm
35 578	15 480	74.35	41.84	65.5	0.4092	0.2302	0.3605	290.2	-1 532c	26 532	
37 587	17 485	67.79	37.3	69.97	0.3872	0.213	0.3996	280.1	-1 544c	28 544	
42 611	17 490	45.63	24.28	69.96	0.3262	0.1735	0.5001	259.8	-1 559c	31 559	min
-1 495c	19 495	22.25	16.51	72.61	0.1998	0.1482	0.6519	233.2	12 463	33 569	
-1 500c	20 500	22.27	17.88	73.52	0.1959	0.1573	0.6467	231.4	13 466	34 570	
-1 510c	22 510	22.36	21.77	74.75	0.1881	0.1831	0.6287	226.2	14 471	34 572	
-1 520c	24 520	22.89	27.32	75.39	0.1822	0.2175	0.6002	219.3	15 475	34 574	Bm
-1 530c	26 530	24.23	34.21	75.73	0.1805	0.2549	0.5644	211.0	15 479	35 578	
-1 539c	27 540	25.28	38.01	75.83	0.1817	0.2732	0.545	206.7	16 480	35 579	
-1 545c	29 545	28.25	46.07	75.95	0.188	0.3065	0.5053	198.2	16 483	36 583	
-1 549c	29 550	28.25	46.07	75.95	0.188	0.3065	0.5053	198.2	16 483	36 583	
-1 554c	30 555	30.22	50.23	75.98	0.1932	0.321	0.4856	194.1	16 484	37 585	
-1 559c	31 560	32.55	54.42	76.0	0.1997	0.3339	0.4663	190.3	17 485	37 588	
380	770	87.88	88.59	67.39	0.3603	0.3632	0.2763	0.0			

TUB-test chart BE17; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant P45; diagram for illuminant P45, $Y_w=88,6$

input: w/rgb/cmyk -> rgb



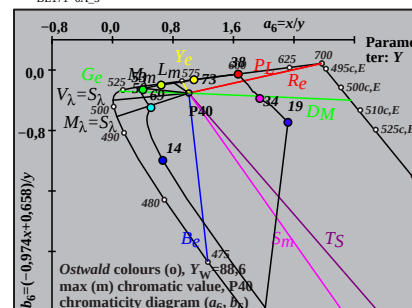
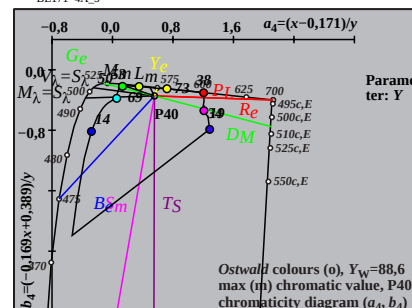
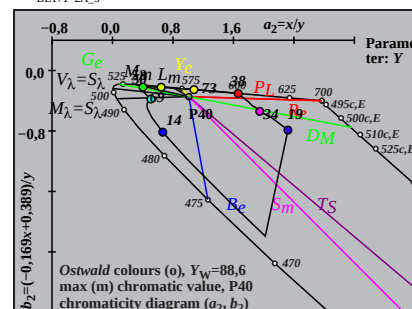
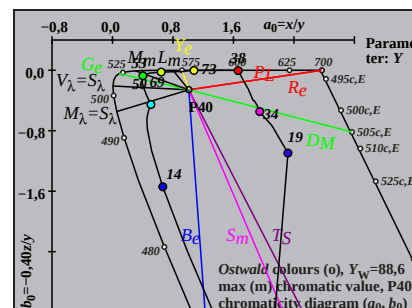
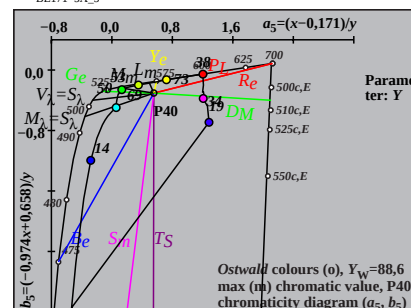
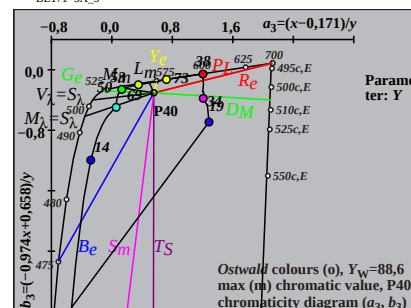
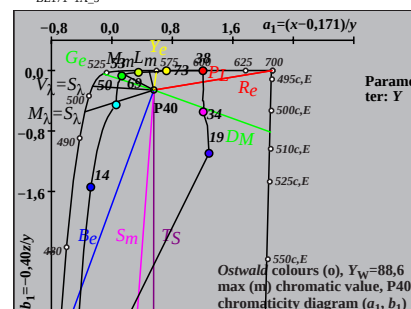
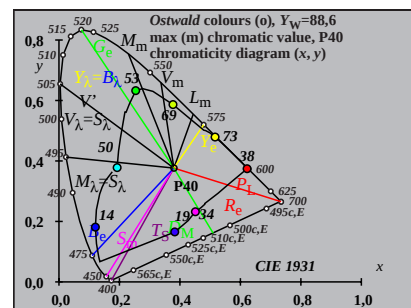
Ostwald optimal colours (o) of maximum (m) C_{AB} for P40, Y_w=88,6, Y_m=520_770

i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code
0	405	33	568	25.48	50.12	56.92	0.1922	0.3782	0.4295	179.4	17 488 38 594 Cm
7	435	33	568	22.92	50.37	42.95	0.1971	0.4333	0.3695	162.7	18 493 54 674
10	450	33	569	20.81	50.74	29.3	0.2063	0.5031	0.2905	143.8	19 499 -1 499c
12	460	34	570	19.89	51.2	20.08	0.2181	0.5615	0.2202	131.1	21 507 -1 507c
13	465	34	571	19.88	51.65	15.98	0.2271	0.5902	0.1825	125.5	22 512 -1 512c
14	470	34	572	20.36	52.42	12.49	0.2387	0.6147	0.1464	120.6	23 519 -1 519c
14	475	34	574	21.95	54.15	12.49	0.2477	0.6111	0.141	119.3	24 522 -1 522c Gm
15	480	35	578	24.49	56.54	9.64	0.2701	0.6234	0.1063	113.9	26 531 -1 531c
17	485	37	585	29.72	60.26	5.64	0.3108	0.6301	0.059	105.2	28 543 -1 543c
17	490	40	600	44.57	70.01	5.65	0.3707	0.5822	0.047	92.5	30 554 -1 554c max
19	495	-1	495c	80.24	84.05	3.24	0.4789	0.5016	0.0193	51.6	34 571 12 464
20	500	-1	500c	80.23	82.78	2.4	0.485	0.5004	0.0145	49.6	34 571 13 467
21	510	-1	509c	80.21	81.16	1.75	0.4916	0.4975	0.0107	47.2	34 572 13 469
24	520	-1	520c	79.64	73.89	0.66	0.5164	0.4792	0.0042	36.9	35 575 15 476 Ym
26	530	-1	530c	78.35	67.28	0.33	0.5368	0.4609	0.0022	28.2	35 578 16 480
27	540	-1	539c	77.33	63.58	0.23	0.5478	0.4504	0.0016	23.7	36 580 16 481
29	545	-1	545c	74.41	55.69	0.12	0.5714	0.4276	0.0009	14.9	36 584 16 484
29	550	-1	549c	74.41	55.69	0.12	0.5714	0.4276	0.0009	14.9	36 584 16 484
31	555	-1	555c	70.15	47.4	0.07	0.5963	0.403	0.0006	6.9	37 588 17 486
32	560	-1	560c	67.45	43.22	0.05	0.6091	0.3903	0.0005	3.4	38 591 17 487
33	568	0	405	75.45	49.87	7.76	0.5669	0.3747	0.0583	359.4	38 594 17 488 Rm
33	568	7	435	78.01	49.62	21.73	0.5222	0.3322	0.1454	342.7	54 674 18 493
33	569	10	450	80.12	49.25	35.38	0.4862	0.2989	0.2147	323.9	-1 499c 19 499
34	570	12	460	81.04	48.79	44.6	0.4645	0.2797	0.2557	311.1	-1 507c 21 507
34	571	13	465	81.04	48.34	48.7	0.455	0.2714	0.2734	305.5	-1 512c 22 512
34	572	14	470	80.56	47.57	52.19	0.4467	0.2638	0.2894	300.6	-1 519c 23 519
34	574	14	475	78.97	45.84	52.19	0.4461	0.259	0.2948	299.4	-1 522c 24 522 Mm
35	578	15	480	76.43	43.45	55.04	0.4369	0.2484	0.3146	294.0	-1 531c 26 531
37	585	17	485	71.2	39.73	59.04	0.4188	0.2337	0.3473	285.2	-1 543c 28 543
40	600	17	490	56.35	29.98	59.03	0.3876	0.2062	0.406	272.6	-1 554c 30 554 min
-1	495c	19	495	20.68	15.94	61.44	0.2109	0.1625	0.6264	231.6	12 464 34 571
-1	500c	20	500	20.69	17.21	62.28	0.2065	0.1718	0.6215	229.7	13 467 34 571
-1	509c	21	510	20.72	18.83	62.93	0.2021	0.1837	0.614	227.3	13 469 34 572
-1	520c	24	520	21.28	26.1	64.02	0.191	0.2342	0.5746	216.9	15 476 35 575 Bm
-1	530c	26	530	22.57	32.71	64.35	0.1886	0.2734	0.5378	208.3	16 480 35 578
-1	539c	27	540	23.59	36.41	64.45	0.1895	0.2925	0.5178	203.7	16 481 36 580
-1	545c	29	545	26.51	44.3	64.56	0.1958	0.3272	0.4769	194.9	16 484 36 584
-1	549c	29	550	26.51	44.3	64.56	0.1958	0.3272	0.4769	194.9	16 484 36 584
-1	555c	31	555	30.78	52.59	64.61	0.2079	0.3553	0.4366	186.9	17 486 37 588
-1	560c	32	560	33.47	56.77	64.63	0.2161	0.3665	0.4172	183.4	17 487 38 591
380	770	89.41	88.59	57.3	0.3799	0.3764	0.2435	0.0			

TUB-test chart BE17; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant P40; diagram for illuminant P40, Y_w=88,6

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE17/BE17L0NP.PDF /.PS
application for measurement of offset print output

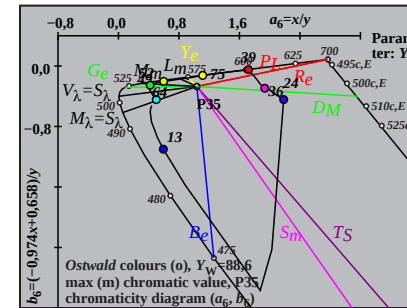
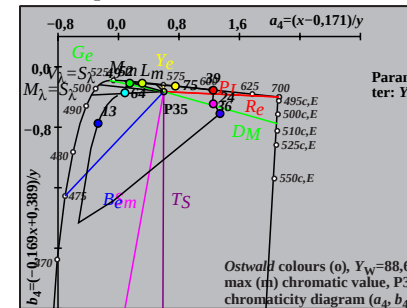
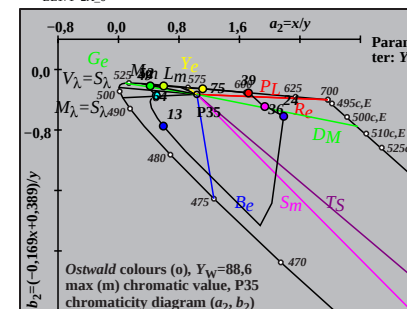
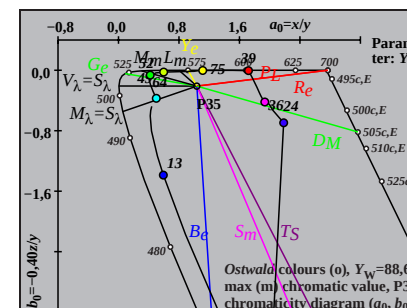
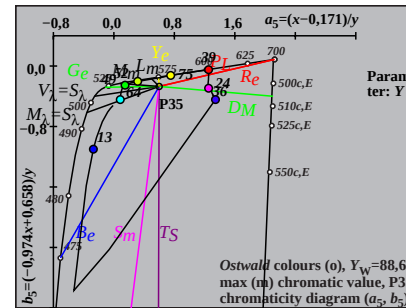
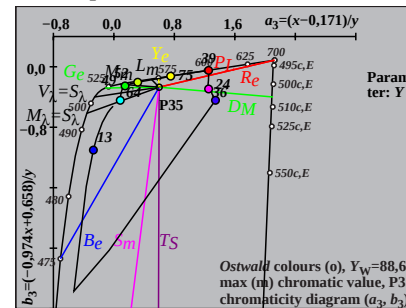
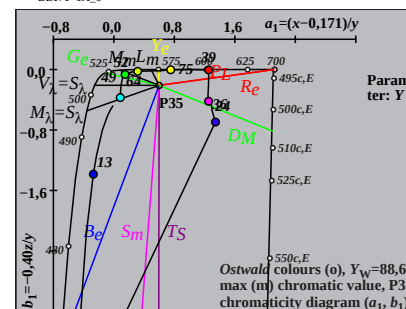
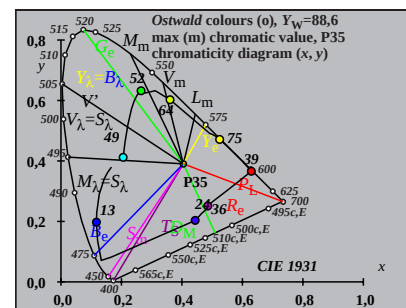
TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) C_{AB} for P35, $Y_w=88,6$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
1 405	34 570	24.75	49.58	45.96	0.2057	0.4121	0.382	173.7	18 490	39 596	Cm
7 435	34 570	22.9	49.77	35.63	0.2114	0.4595	0.329	160.3	18 494	48 640	
9 450	34 571	21.99	50.15	28.58	0.2183	0.4979	0.2837	150.0	19 498	-1 498c	
12 460	34 572	20.57	50.42	17.3	0.2329	0.571	0.1959	133.5	21 507	-1 507c	
12 465	34 572	21.1	50.99	17.3	0.236	0.5703	0.1935	133.1	21 508	-1 508c	
14 470	34 573	20.94	51.41	10.96	0.2513	0.617	0.1316	124.0	23 519	-1 519c	
14 475	35 575	22.28	52.79	10.97	0.2589	0.6135	0.1274	123.1	24 520	-1 520c	Gm
15 480	35 578	24.32	54.7	8.54	0.2777	0.6246	0.0976	118.4	25 529	-1 529c	
17 485	36 583	28.37	57.55	5.09	0.3117	0.6322	0.0559	111.0	28 542	-1 542c	
18 490	38 593	38.35	64.11	3.91	0.3605	0.6026	0.0368	101.7	30 552	-1 552c	max
19 495	52 661	82.25	83.86	2.98	0.4864	0.4959	0.0176	52.2	34 572	12 460	
20 500	-1 500c	84.53	83.56	2.23	0.4963	0.4905	0.0131	47.5	34 573	13 468	
22 510	-1 510c	84.45	80.25	1.19	0.509	0.4837	0.0072	41.7	34 574	14 473	Ym
23 520	-1 519c	84.29	78.0	0.87	0.5165	0.478	0.0053	38.0	35 576	15 475	
26 530	-1 530c	82.77	69.11	0.32	0.5437	0.454	0.0021	24.5	35 579	16 481	
27 540	-1 539c	81.79	65.58	0.23	0.5541	0.4442	0.0015	19.8	36 581	16 483	
29 545	-1 545c	78.95	57.91	0.12	0.5763	0.4227	0.0008	10.6	37 585	17 486	
29 550	-1 549c	78.95	57.91	0.12	0.5763	0.4227	0.0008	10.6	37 585	17 486	
31 555	-1 555c	74.74	49.73	0.07	0.6001	0.3992	0.0005	2.5	37 589	17 488	
32 560	-1 560c	72.04	45.55	0.05	0.6123	0.3871	0.0004	359.0	38 591	17 489	
34 570	1 405	78.91	50.41	6.46	0.5811	0.3712	0.0476	353.7	39 596	18 490	Rm
34 570	7 435	80.75	50.22	16.79	0.5464	0.3398	0.1136	340.3	48 640	18 494	
34 571	9 450	81.67	49.84	23.85	0.5256	0.3208	0.1535	330.0	-1 498c	19 498	
34 572	12 460	83.09	49.57	35.12	0.4952	0.2954	0.2093	313.6	-1 507c	21 507	
34 572	12 465	82.56	49.0	35.12	0.4953	0.2939	0.2107	313.2	-1 508c	21 508	
34 573	14 470	82.72	48.58	41.46	0.4788	0.2812	0.2399	304.1	-1 519c	23 519	
35 575	14 475	81.38	47.2	41.46	0.4785	0.2775	0.2438	303.2	-1 520c	24 520	Mm
35 578	15 480	79.33	45.29	43.88	0.4708	0.2687	0.2604	298.5	-1 529c	25 529	
36 583	17 485	75.29	42.44	47.33	0.4561	0.2571	0.2867	291.0	-1 542c	28 542	
38 593	18 490	65.3	35.88	48.51	0.4362	0.2397	0.324	281.8	-1 552c	30 552	min
52 661	19 495	21.41	16.13	49.44	0.2461	0.1854	0.5683	232.2	12 460	34 572	
-1 500c	20 500	19.13	16.43	50.19	0.223	0.1916	0.5852	227.5	13 468	34 573	
-1 510c	22 510	19.21	19.74	51.23	0.213	0.2188	0.568	221.8	14 473	34 574	
-1 519c	23 520	19.37	21.99	51.56	0.2084	0.2366	0.5548	218.0	15 475	35 576	Bm
-1 530c	26 530	20.89	30.88	52.1	0.2011	0.2972	0.5015	204.5	16 481	35 579	
-1 539c	27 540	21.87	34.41	52.2	0.2016	0.3172	0.4811	199.8	16 483	36 581	
-1 545c	29 545	24.7	42.08	52.31	0.2074	0.3533	0.4391	190.6	17 486	37 585	
-1 549c	29 550	24.7	42.08	52.31	0.2074	0.3533	0.4391	190.6	17 486	37 585	
-1 555c	31 555	28.92	50.26	52.36	0.2198	0.3821	0.398	182.5	17 488	37 589	
-1 560c	32 560	31.61	54.44	52.37	0.2283	0.3932	0.3783	179.0	17 489	38 591	
380	770	91.83	88.59	46.45	0.4047	0.3904	0.2047	0.0			

TUB-test chart BE17; CIE (x, y) and chromaticities (a_i, b_i)
Ostwald optimal colours for illuminant P35; diagram for illuminant P35, $Y_w=88,6$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE17/BE17L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) C_{AB} for P25, $Y_w=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
1 405	35 576	24.75	47.49	23.38	0.2588	0.4966	0.2445	159.1	19 497	40 601	Cm
6 435	35 576	24.33	47.61	20.61	0.2628	0.5144	0.2227	154.7	19 499	42 611	
10 450	35 577	23.37	47.75	14.33	0.2735	0.5587	0.1677	144.4	20 504	-1 504c	
11 460	35 577	23.37	48.01	12.44	0.2788	0.5726	0.1484	141.1	21 506	-1 506c	
13 465	35 577	23.06	48.11	8.7	0.2887	0.6022	0.1089	134.8	22 513	-1 513c	
14 470	35 578	23.29	48.41	7.07	0.2957	0.6144	0.0897	131.9	23 518	-1 518c	
15 475	35 579	23.86	48.92	5.67	0.3041	0.6235	0.0723	129.3	24 524	-1 524c	Gm
16 480	36 580	24.99	49.8	4.52	0.3151	0.6278	0.057	126.9	26 531	-1 531c	
17 485	36 582	27.13	51.32	3.58	0.3307	0.6255	0.0437	124.4	27 539	-1 539c	
18 490	37 586	31.16	54.09	2.83	0.3537	0.614	0.0321	121.4	29 546	-1 546c	max
18 495	38 594	39.94	60.14	2.83	0.3881	0.5843	0.0275	117.3	30 553	-1 553c	
20 500	44 620	70.01	74.22	1.71	0.4797	0.5085	0.0117	87.9	34 570	-1 570c	
21 510	-1 509c	98.57	84.44	1.29	0.5348	0.4581	0.007	37.2	35 578	14 474	Ym
24 520	-1 520c	98.17	79.36	0.54	0.5512	0.4456	0.003	23.1	36 581	16 481	
25 530	-1 529c	97.77	76.98	0.4	0.5581	0.4394	0.0023	17.5	36 582	16 484	
28 540	-1 540c	95.25	68.02	0.16	0.5827	0.4162	0.0009	1.4	37 586	17 489	
28 545	-1 544c	95.25	68.02	0.16	0.5827	0.4162	0.0009	1.4	37 586	17 489	
29 550	-1 549c	93.83	64.51	0.12	0.5921	0.4071	0.0007	356.7	37 588	18 491	
30 555	-1 554c	92.07	60.79	0.09	0.6019	0.3974	0.0006	352.6	37 589	18 492	
32 560	-1 560c	87.28	52.84	0.06	0.6226	0.3769	0.0004	345.9	38 594	18 494	
35 576	1 405	90.43	52.5	3.2	0.6187	0.3592	0.0219	339.1	40 601	19 497	Rm
35 576	6 435	90.85	52.38	5.97	0.6088	0.351	0.04	334.7	42 611	19 499	
35 577	10 450	91.8	52.24	12.25	0.5873	0.3342	0.0784	324.4	-1 504c	20 504	
35 577	11 460	91.8	51.98	14.14	0.5812	0.3291	0.0895	321.1	-1 506c	21 506	
35 577	13 465	92.11	51.88	17.89	0.5689	0.3205	0.1105	314.8	-1 513c	22 513	
35 578	14 470	91.88	51.58	19.52	0.5637	0.3165	0.1197	312.0	-1 518c	23 518	
35 579	15 475	91.32	51.07	20.91	0.5591	0.3127	0.128	309.4	-1 524c	24 524	Mm
36 580	16 480	90.18	50.19	22.07	0.5551	0.3089	0.1358	307.0	-1 531c	26 531	
36 582	17 485	88.04	48.67	23.0	0.5512	0.3047	0.144	304.5	-1 539c	27 539	
37 586	18 490	84.01	45.9	23.76	0.5466	0.2986	0.1546	301.4	-1 546c	29 546	min
38 594	18 495	75.23	39.85	23.75	0.5418	0.287	0.171	297.3	-1 553c	30 553	
44 620	20 500	45.16	25.77	24.87	0.4713	0.269	0.2596	268.0	-1 570c	34 570	
-1 509c	21 510	16.6	15.55	25.29	0.289	0.2706	0.4402	217.3	14 474	35 578	
-1 520c	24 520	17.01	20.63	26.04	0.267	0.3239	0.4089	203.1	16 481	36 581	Bm
-1 529c	25 530	17.4	23.01	26.18	0.2613	0.3455	0.3931	197.5	16 484	36 582	
-1 540c	28 540	19.93	31.97	26.43	0.2544	0.4081	0.3374	181.4	17 489	37 586	
-1 544c	28 545	19.93	31.97	26.43	0.2544	0.4081	0.3374	181.4	17 489	37 586	
-1 549c	29 550	21.34	35.48	26.47	0.2562	0.4259	0.3177	176.7	18 491	37 588	
-1 554c	30 555	23.11	39.2	26.49	0.2602	0.4414	0.2983	172.6	18 492	37 589	
-1 560c	32 560	27.89	47.15	26.53	0.2746	0.4641	0.2611	165.9	18 494	38 594	
380	770	102.04	88.59	23.56	0.4764	0.4136	0.1099	0.0			

TUB-test chart BE17; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant P25; diagram for illuminant P25, $Y_w=88,6$

input: w/rgb/cmyk -> rgb

