

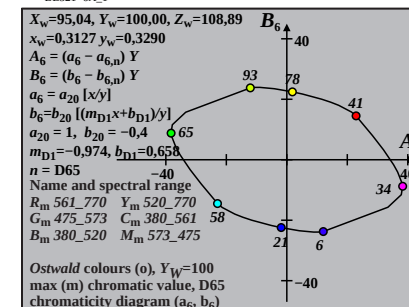
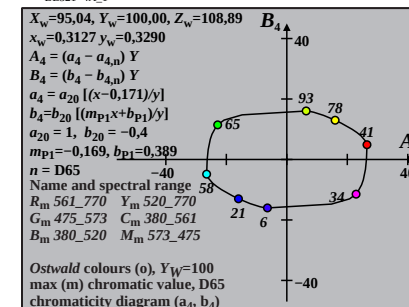
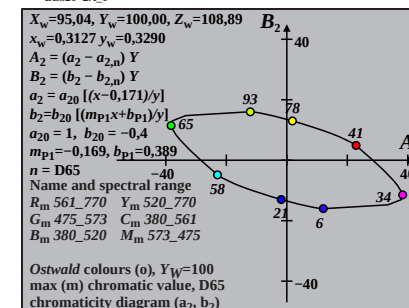
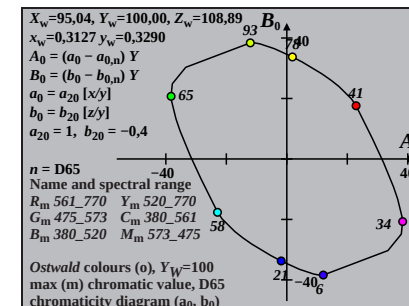
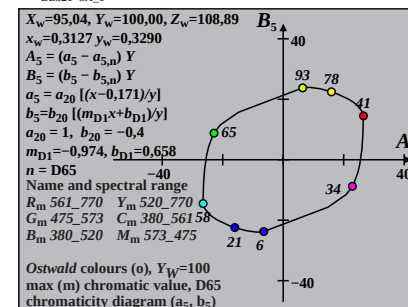
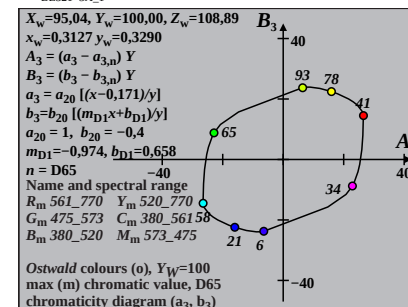
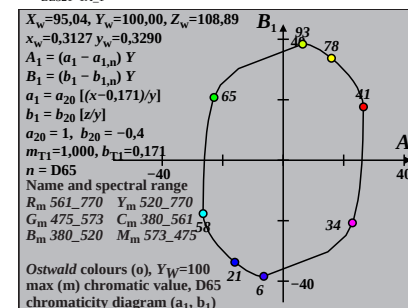
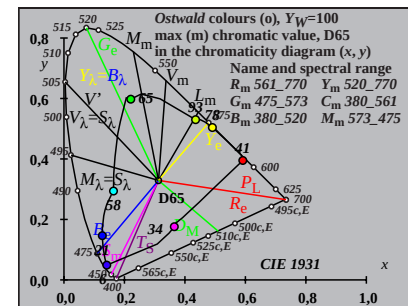
see similar files: <http://farbe.li.tu-berlin.de/BE32/BE32.HTM>
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o) of maximum (m) C_{AB} for D65, $Y_w=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
0 405	32 561	58.2	-22.74	-17.89	28.94	0.5596	-0.743	218.1	16 483	37 589	Cm
6 435	32 562	58.79	-26.79	-9.88	28.55	0.4948	-0.6036	200.2	17 486	42 610	
10 450	32 563	59.41	-33.54	4.93	33.9	0.3859	-0.3525	171.6	19 496	-1 496c	
12 460	33 565	60.32	-36.45	12.66	38.58	0.3461	-0.2256	160.8	21 505	-1 505c	
12 465	33 567	61.66	-36.65	13.24	38.97	0.356	-0.2207	160.1	21 506	-1 506c	
14 470	33 569	62.72	-38.14	19.32	42.76	0.3422	-0.1274	153.1	24 520	-1 520c	
15 475	34 573	65.29	-38.28	22.47	44.39	0.364	-0.0913	149.5	25 528	-1 528c	Gm
16 480	36 580	69.95	-37.48	26.04	45.64	0.4146	-0.0632	145.2	27 537	-1 537c	
17 485	39 595	78.75	-32.73	31.0	45.09	0.5347	-0.0418	136.5	29 548	-1 548c	
18 490	-1 490c	93.8	-12.06	38.4	40.25	0.8218	-0.0261	107.4	33 565	11 459	max
19 495	-1 495c	92.3	-10.68	38.39	39.85	0.8346	-0.0195	105.5	33 566	12 462	
20 500	-1 500c	90.42	-8.91	38.07	39.1	0.8518	-0.0144	103.1	33 567	12 464	
22 510	-1 510c	85.27	-4.15	36.48	36.72	0.9016	-0.0076	96.5	33 569	13 469	
23 520	-1 519c	81.98	-1.26	35.24	35.26	0.935	-0.0056	92.0	34 570	14 471	Ym
25 530	-1 529c	74.04	5.15	32.02	32.43	1.0201	-0.0031	80.8	34 573	15 475	
27 540	-1 539c	64.9	11.57	28.16	30.44	1.1288	-0.0016	67.6	35 577	15 478	
28 545	-1 544c	60.13	14.5	26.11	29.87	1.1917	-0.0012	60.9	35 579	15 479	
29 550	-1 549c	55.26	17.18	24.01	29.53	1.2613	-0.0009	54.4	36 582	16 480	
30 555	-1 554c	50.4	19.49	21.91	29.33	1.3372	-0.0007	48.3	36 584	16 481	
32 560	-1 560c	41.0	22.8	17.83	28.95	1.5064	-0.0005	38.0	37 589	16 483	
32 561	0 405	41.79	22.74	17.89	28.94	1.4947	-0.0072	38.1	37 589	16 483	Rm
32 562	6 435	41.2	26.79	9.88	28.55	1.6006	-0.1956	20.2	42 610	17 486	
32 563	10 450	40.58	33.54	-4.93	33.9	1.777	-0.557	351.6	-1 496c	19 496	
33 565	12 460	39.67	36.45	-12.66	38.58	1.869	-0.7547	340.8	-1 505c	21 505	
33 567	12 465	38.33	36.65	-13.24	38.97	1.9065	-0.7811	340.1	-1 506c	21 506	
33 569	14 470	37.27	38.14	-19.32	42.76	1.9738	-0.9541	333.1	-1 520c	24 520	
34 573	15 475	34.7	38.28	-22.47	44.39	2.0536	-1.083	329.5	-1 528c	25 528	Mm
36 580	16 480	30.04	37.48	-26.04	45.64	2.1981	-1.3025	325.2	-1 537c	27 537	
39 595	17 485	21.24	32.73	-31.0	45.09	2.4913	-1.8951	316.5	-1 548c	29 548	
-1 490c	18 490	6.19	12.06	-38.4	40.25	2.899	-6.6372	287.4	11 459	33 565	min
-1 495c	19 495	7.69	10.68	-38.39	39.85	2.3392	-5.4245	285.5	12 462	33 566	
-1 500c	20 500	9.57	8.91	-38.07	39.1	1.8814	-4.4105	283.1	12 464	33 567	
-1 510c	22 510	14.72	4.15	-36.48	36.72	1.2328	-2.9143	276.5	13 469	33 569	
-1 519c	23 520	18.01	1.26	-35.24	35.26	1.0204	-2.3925	272.0	14 471	34 570	Bm
-1 529c	25 530	25.95	-5.15	-32.02	32.43	0.7516	-1.6693	260.8	15 475	34 573	
-1 539c	27 540	35.09	-11.57	-28.16	30.44	0.6205	-1.238	247.6	15 478	35 577	
-1 544c	28 545	39.86	-14.5	-26.11	29.87	0.5865	-1.0906	240.9	15 479	35 579	
-1 549c	29 550	44.73	-17.18	-24.01	29.53	0.5663	-0.9725	234.4	16 480	36 582	
-1 554c	30 555	49.59	-19.49	-21.91	29.33	0.5572	-0.8774	228.3	16 481	36 584	
-1 560c	32 560	58.99	-22.8	-17.83	28.95	0.5638	-0.7379	218.0	16 483	37 589	
380	770	100.0	0.0	0.0	0.01	0.9504	-0.4355	0.0			

TUB-test chart BE32; CIE (x, y) and chromatic values (A_i, B_i)
Ostwald optimal colours for illuminant D65; diagram for illuminant D65, $Y_w=100$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE32/BE32L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

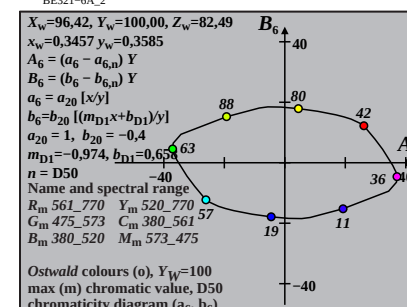
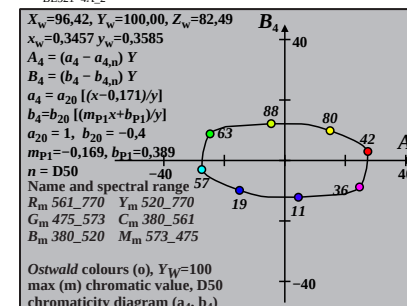
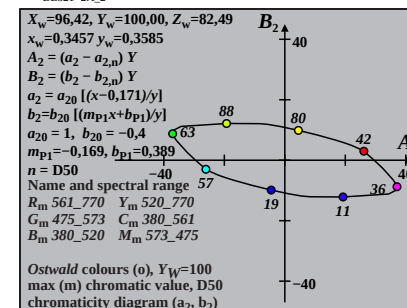
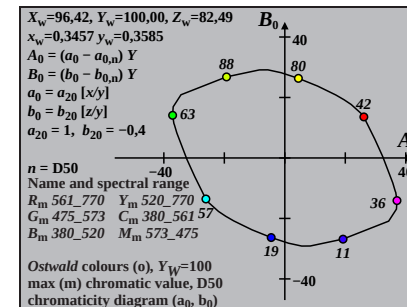
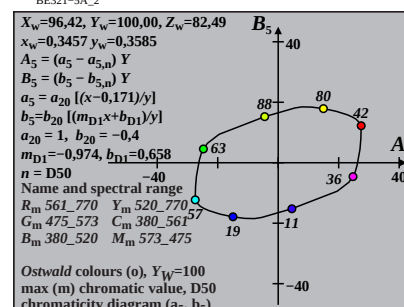
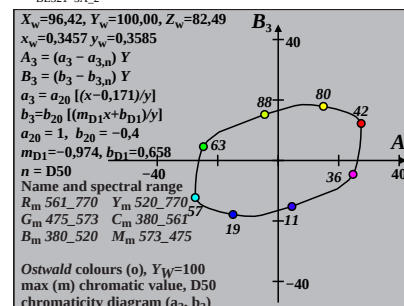
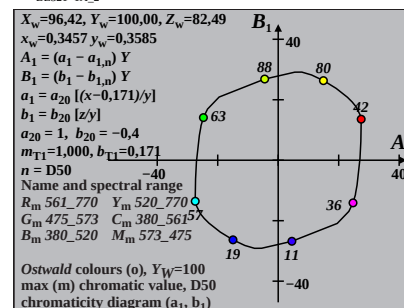
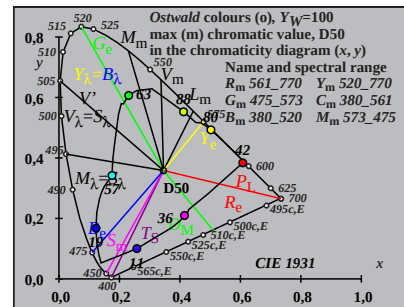
Ostwald optimal colours (o) of maximum (m) C_{AB} for D50, $Y_w=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	32 564	57.81	-26.12	-13.56	29.43	0.5124	-0.5646	207.4	17 486	38 592	Cm
7 435	33 565	58.18	-29.76	-6.19	30.4	0.4526	-0.4365	191.7	18 490	46 634	
10 450	33 566	58.68	-33.54	2.37	33.63	0.3925	-0.2895	175.9	19 497	-1 497c	
12 460	33 567	59.3	-35.7	8.25	36.64	0.3621	-0.1907	166.9	21 506	-1 506c	
13 465	33 568	59.95	-36.49	10.91	38.09	0.3555	-0.1478	163.3	22 511	-1 511c	
14 470	34 570	61.04	-36.99	13.32	39.32	0.3581	-0.1117	160.1	23 519	-1 519c	
15 475	34 573	62.89	-37.08	15.59	40.23	0.3745	-0.0821	157.2	25 527	-1 527c	Gm
15 480	35 578	66.91	-36.91	16.91	40.6	0.4125	-0.0772	155.3	26 531	-1 531c	
17 485	37 587	72.24	-34.33	20.9	40.19	0.489	-0.0405	148.6	28 544	-1 544c	
18 490	44 620	88.02	-19.26	26.82	33.02	0.7454	-0.0251	125.6	32 561	-1 561c	max
19 495	-1 495c	93.65	-7.19	29.25	30.12	0.8874	-0.0176	103.8	33 568	12 463	
20 500	-1 500c	91.98	-5.59	29.14	29.67	0.9033	-0.0131	100.8	33 569	13 466	
22 510	-1 510c	87.33	-1.23	28.19	28.22	0.95	-0.0071	92.5	34 571	14 471	
23 520	-1 519c	84.29	1.48	27.36	27.41	0.9818	-0.0053	86.8	34 572	14 473	Ym
25 530	-1 529c	76.8	7.64	25.11	26.25	1.0637	-0.0029	73.0	35 575	15 477	
27 540	-1 539c	68.0	13.94	22.33	26.32	1.1692	-0.0015	58.0	35 579	16 480	
28 545	-1 544c	63.34	16.86	20.82	26.8	1.2304	-0.0011	50.9	36 581	16 481	
29 550	-1 549c	58.55	19.56	19.26	27.45	1.2983	-0.0009	44.5	36 583	16 483	
30 555	-1 554c	53.72	21.93	17.68	28.17	1.3724	-0.0007	38.8	37 585	16 484	
32 560	-1 560c	44.27	25.38	14.58	29.27	1.5375	-0.0005	29.8	38 590	17 486	
32 564	1 405	42.18	26.11	13.56	29.43	1.5834	-0.0084	27.4	38 592	17 486	Rm
33 565	7 435	41.81	29.76	6.19	30.4	1.6761	-0.1817	11.7	46 634	18 490	
33 566	10 450	41.31	33.54	-2.37	33.63	1.7762	-0.3874	355.9	-1 497c	19 497	
33 567	12 460	40.69	35.7	-8.25	36.64	1.8416	-0.5329	346.9	-1 506c	21 506	
33 568	13 465	40.04	36.49	-10.91	38.09	1.8756	-0.6026	343.3	-1 511c	22 511	
34 570	14 470	38.95	36.99	-13.32	39.32	1.9139	-0.6719	340.1	-1 519c	23 519	
34 573	15 475	37.1	37.08	-15.59	40.23	1.9638	-0.7501	337.2	-1 527c	25 527	Mm
35 578	15 480	33.08	36.91	-16.91	40.6	2.08	-0.8412	335.3	-1 531c	26 531	
37 587	17 485	27.75	34.32	-20.9	40.19	2.201	-1.0832	328.6	-1 544c	28 544	
44 620	18 490	11.97	19.26	-26.82	33.02	2.572	-2.5696	305.6	-1 561c	32 561	min
-1 495c	18 490	6.34	7.19	-29.25	30.12	2.0975	-4.9398	283.8	12 463	33 568	
-1 500c	20 500	8.01	5.59	-29.14	29.67	1.6629	-3.9666	280.8	13 466	33 569	
-1 510c	22 510	12.66	1.23	-28.19	28.22	1.0617	-2.5572	272.5	14 471	34 571	
-1 519c	23 520	15.7	-1.48	-27.36	27.41	0.8696	-2.073	266.8	14 473	34 572	Bm
-1 529c	25 530	23.19	-7.64	-25.11	26.25	0.6346	-1.4127	253.0	15 477	35 575	
-1 539c	27 540	31.99	-13.94	-22.33	26.32	0.5285	-1.0279	238.0	16 480	35 579	
-1 544c	28 545	36.65	-16.86	-20.82	26.8	0.504	-0.8982	230.9	16 481	36 581	
-1 549c	29 550	41.44	-19.56	-19.26	27.45	0.4922	-0.7949	224.5	16 483	36 583	
-1 554c	30 555	46.27	-21.93	-17.68	28.17	0.4903	-0.7122	218.8	16 484	37 585	
-1 560c	32 560	55.72	-25.38	-14.58	29.27	0.5087	-0.5917	209.8	17 486	38 590	
380	770	100.0	0.0	0.0	0.01	0.9642	-0.3299	0.0			

TUB-test chart BE32; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant D50; diagram for illuminant D50, $Y_w=100$

input: w/rgb/cmyk -> rgb



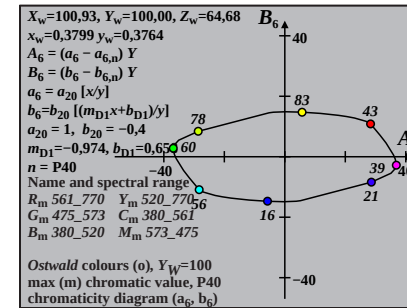
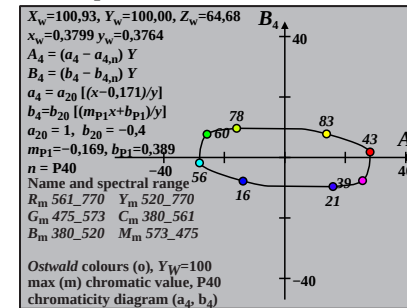
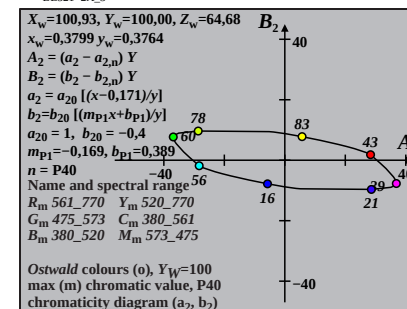
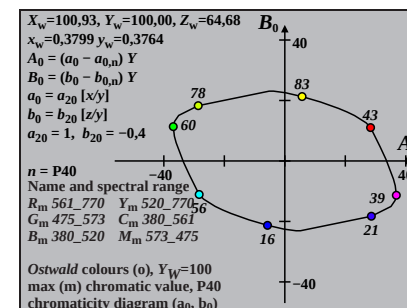
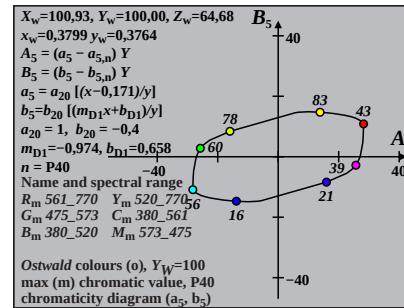
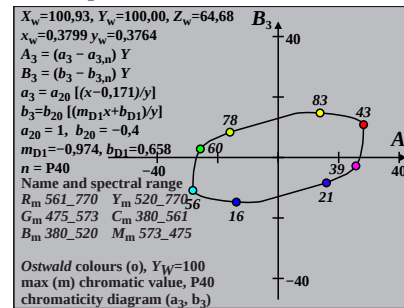
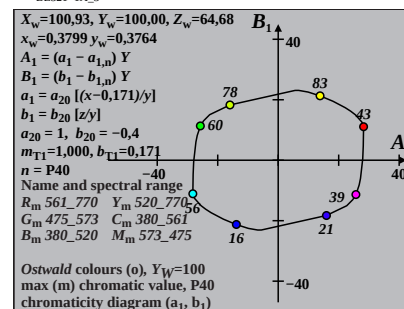
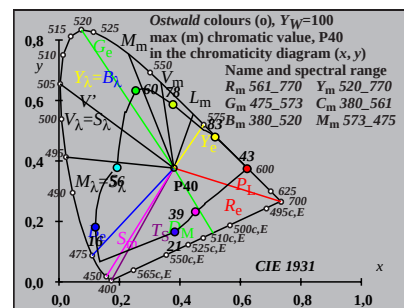
Ostwald optimal colours (o) of maximum (m) C_{AB} for P40, $Y_w=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
0	405	33	568	56.58	-28.34	-11.06	30.43	0.5083	-0.4542	201.3	17 488 38 594 Cm
7	435	33	568	56.85	-31.51	-4.68	31.86	0.455	-0.3411	188.4	18 493 54 674
10	450	33	569	57.27	-34.31	1.59	34.35	0.4101	-0.2309	177.3	19 499 -1 499c
12	460	34	570	57.79	-35.88	5.88	36.36	0.3884	-0.1569	170.6	21 507 -1 507c
13	465	34	571	58.31	-36.41	7.87	37.25	0.3848	-0.1237	167.7	22 512 -1 512c
14	470	34	572	59.17	-36.74	9.67	37.99	0.3884	-0.0953	165.2	23 519 -1 519c
14	475	34	574	61.12	-36.91	10.17	38.29	0.4054	-0.0923	164.5	24 522 -1 522c Gm
15	480	35	578	63.82	-36.76	12.15	38.72	0.4332	-0.0682	161.6	26 531 -1 531c
17	485	37	585	68.02	-35.1	15.05	38.19	0.4932	-0.0374	156.7	28 543 -1 543c
17	490	40	600	79.03	-29.45	17.89	34.46	0.6366	-0.0323	148.7	30 554 -1 554c max
19	495	-1	495c	94.87	-5.18	23.08	23.65	0.9546	-0.0154	102.6	34 571 12 464
20	500	-1	500c	93.44	-3.75	23.09	23.39	0.9691	-0.0116	99.2	34 571 13 467
21	510	-1	509c	91.62	-1.93	22.91	22.99	0.9882	-0.0086	94.8	34 572 13 469
24	520	-1	520c	83.41	5.7	21.28	22.03	1.0777	-0.0035	74.9	35 575 15 476 Ym
26	530	-1	530c	75.94	11.79	19.5	22.79	1.1646	-0.0019	58.8	35 578 16 480
27	540	-1	539c	71.77	14.84	18.46	23.69	1.2161	-0.0014	51.1	36 580 16 481
29	545	-1	545c	62.86	20.55	16.21	26.17	1.3362	-0.0008	38.2	36 584 16 484
29	550	-1	549c	62.86	20.55	16.21	26.17	1.3362	-0.0008	38.2	36 584 16 484
31	555	-1	555c	53.5	25.17	13.81	28.71	1.4798	-0.0005	28.7	37 588 17 486
32	560	-1	560c	48.79	26.89	12.59	29.7	1.5605	-0.0005	25.1	38 591 17 487
33	568	0	405	43.41	28.34	11.06	30.43	1.6623	-0.0039	21.3	38 594 17 488 Rm
33	568	7	435	43.14	31.51	4.68	31.86	1.7398	-0.1501	8.4	54 674 18 493
33	569	10	450	42.72	34.31	-1.59	34.35	1.8125	-0.2959	357.3	-1 499c 19 499
34	570	12	460	42.2	35.88	-5.88	36.36	1.8594	-0.3982	350.6	-1 507c 21 507
34	571	13	465	41.68	36.41	-7.87	37.25	1.8827	-0.4476	347.7	-1 512c 22 512
34	572	14	470	40.82	36.73	-9.67	37.99	1.9092	-0.4956	345.2	-1 519c 23 519
34	574	14	475	38.87	36.91	-10.17	38.29	1.9588	-0.5204	344.5	-1 522c 24 522 Mm
35	578	15	480	36.17	36.76	-12.15	38.72	2.0255	-0.5948	341.6	-1 531c 26 531
37	585	17	485	31.97	35.1	-15.05	38.19	2.107	-0.7294	336.7	-1 543c 28 543
40	600	17	490	20.96	29.44	-17.89	34.46	2.414	-1.1123	328.7	-1 554c 30 554 min
-1	495c	19	495	5.12	5.18	-23.08	23.65	2.0215	-4.7666	282.6	12 464 34 571
-1	500c	20	500	6.55	3.75	-23.09	23.39	1.5816	-3.7821	279.2	13 467 34 571
-1	509c	21	510	8.37	1.93	-22.91	22.99	1.2401	-2.9941	274.8	13 469 34 572
-1	520c	24	520	16.58	-5.7	-21.28	22.03	0.665	-1.5424	254.9	15 476 35 575 Bm
-1	530c	26	530	24.05	-11.79	-19.5	22.79	0.5189	-1.0695	238.8	16 480 35 578
-1	539c	27	540	28.22	-14.84	-18.46	23.69	0.4831	-0.9131	231.1	16 481 36 580
-1	545c	29	545	37.13	-20.55	-16.21	26.17	0.4558	-0.6953	218.2	16 484 36 584
-1	549c	29	550	37.13	-20.55	-16.21	26.17	0.4558	-0.6953	218.2	16 484 36 584
-1	555c	31	555	46.49	-25.17	-13.81	28.71	0.4677	-0.5558	208.7	17 486 37 588
-1	560c	32	560	51.2	-26.89	-12.59	29.7	0.484	-0.5047	205.1	17 487 38 591
380	770	100.0	0.0	0.0	0.01	1.0093	-0.2587	0.0			

TUB-test chart BE32; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_w=100$

input: w/rgb/cmyk -> rgb



see similar files: <http://farbe.li.tu-berlin.de/BE32/BE32.HTM>
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o) of maximum (m) C_{AB} for A00, Y_w=100, Y_m=520_770

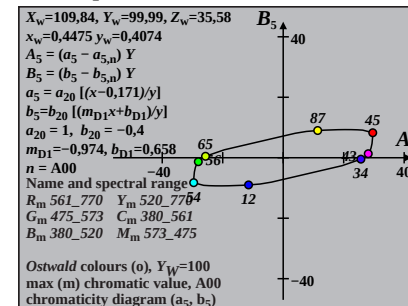
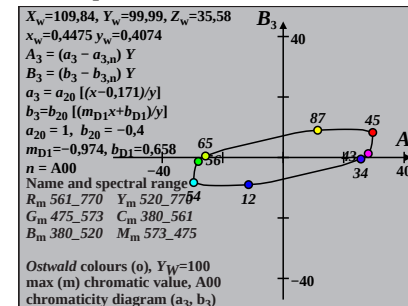
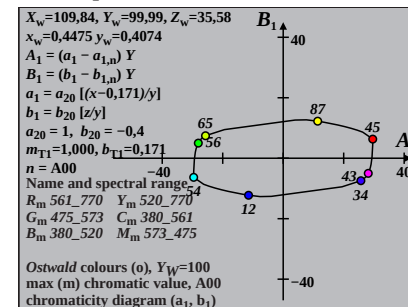
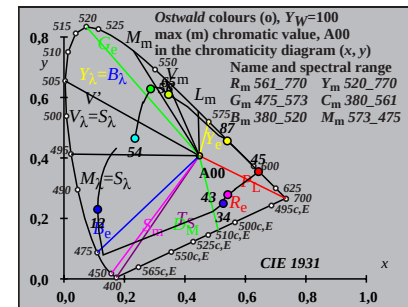
i ₁ , λ ₁	i ₂ , λ ₂	Y	A	B	C _{AB}	a	b	h _{ab}	i _d , λ _d	i _c , λ _c	Code
1 405	34 574	54.67	-32.45	-6.33	33.06	0.5048	-0.2581	191.0	18 494	39 599	Cm
6 435	34 574	54.85	-33.42	-4.41	33.71	0.4891	-0.2227	187.5	19 496	42 611	
9 450	34 574	55.12	-34.79	-1.48	34.82	0.4673	-0.1692	182.4	20 501	-1 501c	
12 460	35 575	55.33	-36.07	1.97	36.12	0.4465	-0.1066	176.8	21 508	-1 508c	
13 465	35 575	55.6	-36.34	3.09	36.47	0.4448	-0.0866	175.1	22 512	-1 512c	
13 470	35 576	56.26	-36.37	3.18	36.51	0.452	-0.0856	174.9	22 513	-1 513c	
14 475	35 577	57.11	-36.53	4.26	36.78	0.4587	-0.0677	173.3	23 519	-1 519c	Gm
16 480	35 579	58.19	-36.35	5.87	36.82	0.4738	-0.0414	170.8	26 532	-1 532c	
17 485	36 582	60.55	-35.75	6.72	36.38	0.5079	-0.0312	169.3	28 540	-1 540c	
18 490	37 588	64.98	-34.21	7.77	35.08	0.572	-0.0226	167.1	29 548	-1 548c	max
19 495	40 601	74.48	-28.33	9.45	29.86	0.718	-0.0153	161.5	31 559	-1 559c	
20 500	-1 500c	95.67	-0.63	12.74	12.76	1.0918	-0.0091	92.8	35 576	13 469	
21 510	-1 509c	94.31	0.84	12.77	12.8	1.1074	-0.0069	86.2	35 576	14 472	Ym
24 520	-1 520c	87.81	7.47	12.23	14.33	1.1836	-0.003	58.5	35 579	16 480	
26 530	-1 530c	81.5	13.16	11.46	17.45	1.26	-0.0017	41.0	36 582	16 484	
28 540	-1 540c	73.92	19.16	10.44	21.82	1.3576	-0.001	28.6	37 585	17 487	
28 545	-1 544c	73.92	19.16	10.44	21.82	1.3576	-0.001	28.6	37 585	17 487	
29 550	-1 549c	69.75	22.06	9.87	24.17	1.4148	-0.0007	24.1	37 586	17 489	
31 555	-1 555c	60.83	27.26	8.62	28.59	1.5466	-0.0005	17.5	38 590	18 491	
32 560	-1 560c	56.18	29.36	7.96	30.43	1.6212	-0.0004	15.1	38 593	18 492	
34 574	1 405	45.32	32.45	6.33	33.06	1.8145	-0.0026	11.0	39 599	18 494	Rm
34 574	6 435	45.14	33.42	4.41	33.71	1.8389	-0.0445	7.5	42 611	19 496	
34 574	9 450	44.87	34.79	1.48	34.82	1.8738	-0.1092	2.4	-1 501c	20 501	
35 575	12 460	44.66	36.07	-1.97	36.12	1.906	-0.1865	356.8	-1 508c	21 508	
35 575	13 465	44.39	36.34	-3.09	36.47	1.9171	-0.212	355.1	-1 512c	22 512	
35 576	13 470	43.73	36.37	-3.18	36.51	1.9302	-0.2152	354.9	-1 513c	22 513	
35 577	14 475	42.88	36.53	-4.26	36.78	1.9503	-0.2416	353.3	-1 519c	23 519	Mm
35 579	16 480	41.8	36.35	-5.87	36.82	1.9681	-0.2827	350.8	-1 532c	26 532	
36 582	17 485	39.44	35.75	-6.72	36.38	2.005	-0.3129	349.3	-1 540c	28 540	
37 588	18 490	35.01	34.21	-7.77	35.08	2.0756	-0.3644	347.1	-1 548c	29 548	min
40 601	19 495	25.51	28.33	-9.45	29.86	2.2087	-0.5129	341.5	-1 559c	31 559	
-1 500c	20 500	4.32	0.63	-12.74	12.76	1.2447	-3.0904	272.8	13 469	35 576	
-1 509c	21 510	5.68	-0.84	-12.77	12.8	0.9493	-2.3881	266.2	14 472	35 576	
-1 520c	24 520	12.18	-7.47	-12.23	14.33	0.485	-1.146	238.5	16 480	35 579	Bm
-1 530c	26 530	18.49	-13.16	-11.46	17.45	0.3863	-0.7621	221.0	16 484	36 582	
-1 540c	28 540	26.07	-19.16	-10.44	21.82	0.3634	-0.543	208.6	17 487	37 585	
-1 544c	28 545	26.07	-19.16	-10.44	21.82	0.3634	-0.543	208.6	17 487	37 585	
-1 549c	29 550	30.24	-22.06	-9.87	24.17	0.3688	-0.4687	204.1	17 489	37 586	
-1 555c	31 555	39.16	-27.26	-8.62	28.59	0.4022	-0.3625	197.5	18 491	38 590	
-1 560c	32 560	43.81	-29.37	-7.96	30.43	0.4281	-0.3242	195.1	18 492	38 593	
380	770	99.99	0.0	0.0	0.01	1.0984	-0.1423	0.0			

1-000330-L0

BE320-7N_16

TUB-test chart BE32; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant A00; diagram for illuminant A00, Y_w=100

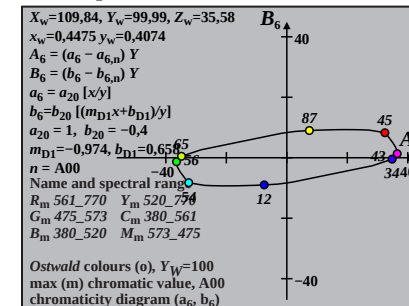
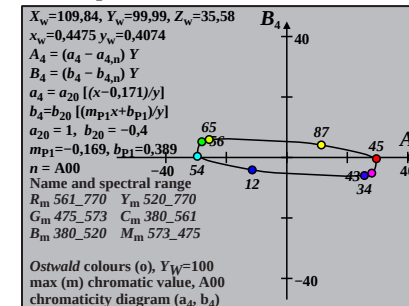
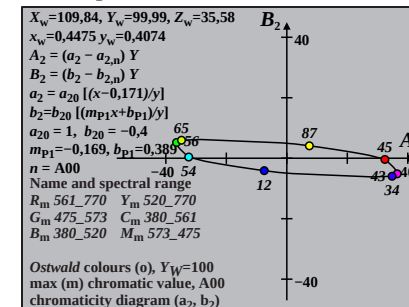
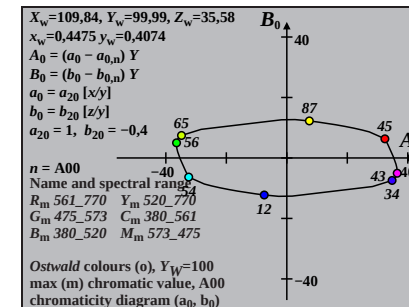


BE321-1A_4

BE321-3A_4

BE321-5A_4

BE321-7A_4



BE321-1A_4

BE321-3A_4

BE321-5A_4

BE321-7A_4

TUB registration: 20170801-BE32/BE32L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

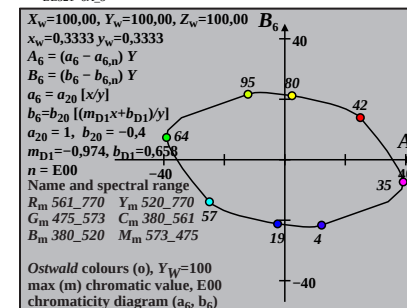
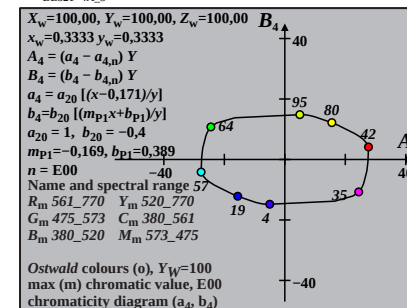
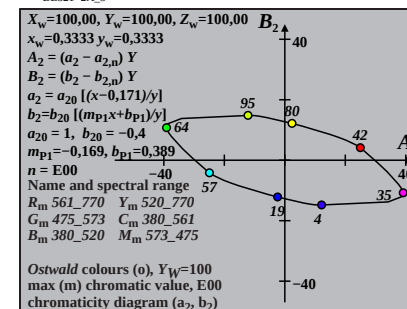
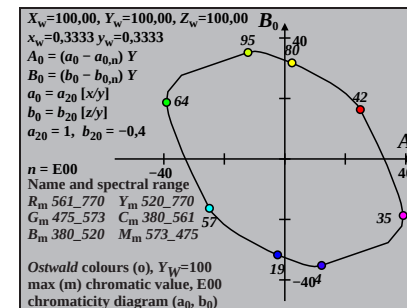
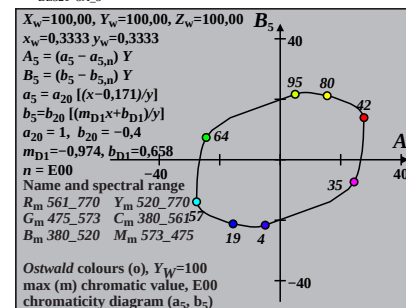
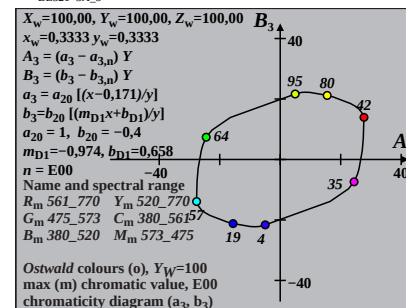
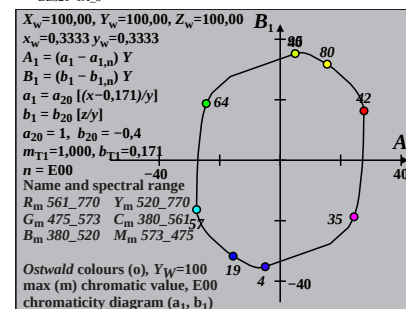
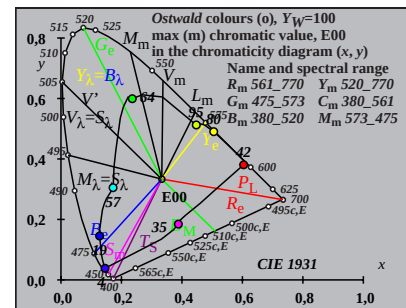
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Ostwald optimal colours (o) of maximum (m) C_{AB} for E00, $Y_w=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	32 564	57.42	-24.95	-16.34	29.83	0.5653	-0.6846	213.2	16 484	38 592	Cm
6 435	33 565	57.91	-29.14	-7.99	30.22	0.4967	-0.538	195.3	17 488	45 627	
10 450	33 566	58.44	-35.13	5.29	35.53	0.3988	-0.3094	171.4	19 498	-1 498c	
12 460	33 568	59.28	-37.54	11.81	39.35	0.3666	-0.2007	162.5	21 507	-1 507c	
13 465	33 569	60.14	-38.45	14.78	41.19	0.3606	-0.1541	158.9	22 514	-1 514c	
14 470	34 571	61.52	-38.94	17.52	42.7	0.367	-0.1152	155.7	24 522	-1 522c	
14 475	35 575	64.53	-39.14	18.72	43.38	0.3934	-0.1099	154.4	25 525	-1 525c	Gm
16 480	36 581	68.21	-38.3	23.26	44.81	0.4385	-0.0589	148.7	27 538	-1 538c	
17 485	39 595	76.7	-34.16	27.66	43.96	0.5546	-0.0393	140.9	29 549	-1 549c	
18 490	-1 490c	94.54	-11.19	35.56	37.28	0.8815	-0.0238	107.4	33 568	11 459	max
19 495	-1 495c	93.18	-9.88	35.6	36.94	0.8939	-0.0179	105.5	33 568	12 461	
19 500	-1 499c	93.18	-9.88	35.6	36.94	0.8939	-0.0179	105.5	33 568	12 461	
22 510	-1 510c	86.74	-3.57	34.08	34.26	0.9587	-0.0071	95.9	34 571	13 469	
24 520	-1 520c	80.14	2.4	31.74	31.83	1.0299	-0.0038	85.6	34 574	14 473	Ym
26 530	-1 530c	72.11	8.87	28.69	30.03	1.123	-0.0021	72.8	35 577	15 477	
28 540	-1 540c	63.21	15.04	25.21	29.35	1.2379	-0.0011	59.1	36 581	15 479	
29 545	-1 545c	58.59	17.8	23.38	29.39	1.3039	-0.0009	52.7	36 583	16 480	
29 550	-1 549c	58.59	17.8	23.38	29.39	1.3039	-0.0009	52.7	36 583	16 480	
30 555	-1 554c	53.92	20.26	21.53	29.56	1.3757	-0.0007	46.7	37 585	16 482	
32 560	-1 560c	44.64	23.98	17.83	29.88	1.5372	-0.0005	36.6	38 590	16 483	
32 564	1 405	42.57	24.95	16.34	29.83	1.5862	-0.0161	33.2	38 592	16 484	Rm
33 565	6 435	42.08	29.14	7.99	30.22	1.6926	-0.21	15.3	45 627	17 488	
33 566	10 450	41.55	35.13	-5.29	35.53	1.8456	-0.5273	351.4	-1 498c	19 498	
33 568	12 460	40.71	37.54	-11.81	39.35	1.9221	-0.6901	342.5	-1 507c	21 507	
33 569	13 465	39.85	38.45	-14.78	41.19	1.9647	-0.771	338.9	-1 514c	22 514	
34 571	14 470	38.47	38.94	-17.52	42.7	2.0122	-0.8553	335.7	-1 522c	24 522	
35 575	14 475	35.46	39.14	-18.72	43.38	2.1036	-0.9278	334.4	-1 525c	25 525	Mm
36 581	16 480	31.78	38.3	-23.26	44.81	2.2051	-1.132	328.7	-1 538c	27 538	
39 595	17 485	23.29	34.16	-27.66	43.96	2.4665	-1.5876	320.9	-1 549c	29 549	
-1 490c	18 490	5.45	11.19	-35.56	37.28	3.0513	-6.9152	287.4	11 459	33 568	min
-1 495c	19 495	6.81	9.88	-35.6	36.94	2.4491	-5.6211	285.5	12 461	33 568	
-1 499c	19 500	6.81	9.88	-35.6	36.94	2.4491	-5.6211	285.5	12 461	33 568	
-1 510c	22 510	13.25	3.57	-34.08	34.26	1.2699	-2.9707	275.9	13 469	34 571	
-1 520c	24 520	19.85	-2.4	-31.74	31.83	0.879	-1.9985	265.6	14 473	34 574	Bm
-1 530c	26 530	27.88	-8.87	-28.69	30.03	0.6818	-1.4288	252.8	15 477	35 577	
-1 540c	28 540	36.78	-15.04	-25.21	29.35	0.591	-1.0854	239.1	15 479	36 581	
-1 545c	29 545	41.4	-17.8	-23.38	29.39	0.5699	-0.9647	232.7	16 480	36 583	
-1 549c	29 550	41.4	-17.8	-23.38	29.39	0.5699	-0.9647	232.7	16 480	36 583	
-1 554c	30 555	46.07	-20.26	-21.53	29.56	0.5601	-0.8673	226.7	16 482	37 585	
-1 560c	32 560	55.35	-23.98	-17.83	29.88	0.5668	-0.7221	216.6	16 483	38 590	
380	770	100.0	0.0	0.0	0.01	1.0	-0.4	0.0			

TUB-test chart BE32; CIE (x, y) and chromatic values (A_i, B_i)Ostwald optimal colours for illuminant E00; diagram for illuminant E00, $Y_w=100$

input: w/rgb/cmyk -> rgb



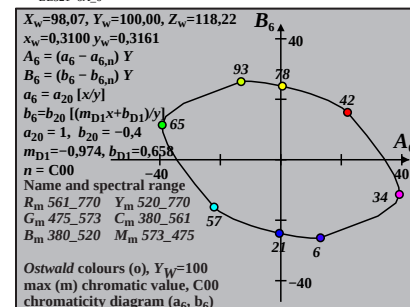
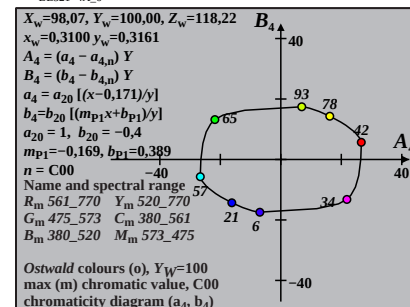
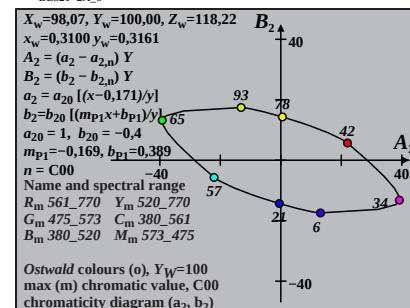
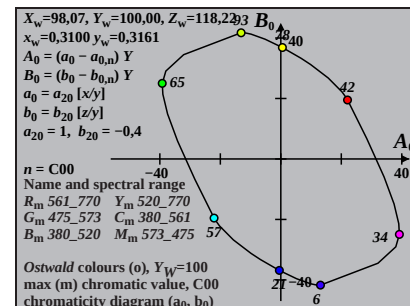
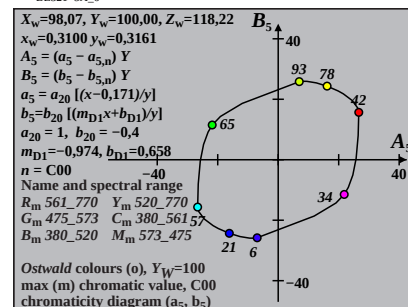
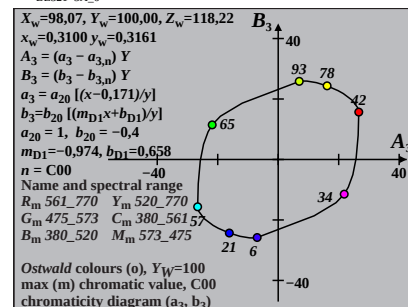
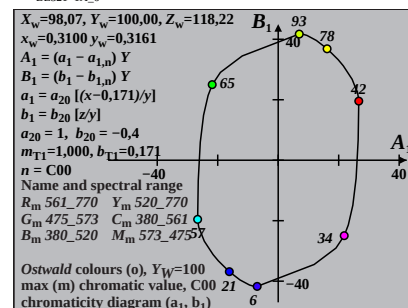
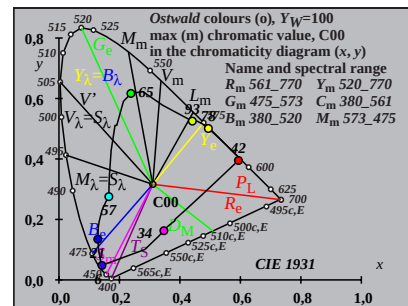
Ostwald optimal colours (o) of maximum (m) C_{AB} for C00, $Y_w=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	32 562	57.68	-22.06	-19.53	29.46	0.5982	-0.8115	221.5	16 482	37 589	Cm
6 435	32 563	58.35	-26.63	-10.46	28.61	0.5242	-0.6521	201.4	17 486	42 612	
10 450	32 564	59.09	-34.15	5.95	34.66	0.4027	-0.3721	170.1	19 496	-1 496c	
11 460	33 566	60.53	-35.97	10.59	37.5	0.3865	-0.2979	163.5	20 501	-1 501c	
13 465	33 568	61.21	-38.26	17.87	42.23	0.3556	-0.1808	154.9	22 513	-1 513c	
14 470	34 570	62.96	-39.0	21.41	44.49	0.3611	-0.1328	151.2	24 522	-1 522c	
15 475	35 575	65.92	-39.2	24.97	46.47	0.3861	-0.0941	147.4	26 530	-1 530c	Gm
16 480	36 582	71.08	-38.02	29.06	47.86	0.4457	-0.064	142.6	28 540	-1 540c	
16 485	40 602	82.56	-32.13	34.48	47.13	0.5915	-0.0552	132.9	30 551	-1 551c	
18 490	-1 490c	93.33	-13.13	41.73	43.75	0.8399	-0.0257	107.4	33 566	11 459	max
19 495	-1 495c	91.77	-11.66	41.66	43.26	0.8536	-0.0188	105.6	33 567	12 462	
19 500	-1 499c	91.77	-11.66	41.66	43.26	0.8536	-0.0188	105.6	33 567	12 462	
21 510	-1 509c	87.66	-7.68	40.59	41.31	0.893	-0.0098	100.7	33 568	13 466	
24 520	-1 520c	78.6	0.51	36.85	36.86	0.9872	-0.0039	89.2	34 572	14 472	Ym
26 530	-1 530c	70.68	6.73	33.27	33.94	1.076	-0.0021	78.5	35 575	15 475	
28 540	-1 540c	61.57	12.87	29.04	31.76	1.1898	-0.0012	66.0	35 579	15 478	
28 545	-1 544c	61.57	12.87	29.04	31.76	1.1898	-0.0012	66.0	35 579	15 478	
29 550	-1 549c	56.72	15.68	26.77	31.02	1.2572	-0.0009	59.6	36 581	15 479	
31 555	-1 555c	46.84	20.29	22.12	30.01	1.4138	-0.0006	47.4	37 586	16 481	
31 560	-1 559c	46.84	20.29	22.12	30.01	1.4138	-0.0006	47.4	37 586	16 481	
32 562	1 405	42.31	22.06	19.53	29.46	1.502	-0.0112	41.5	37 589	16 482	Rm
32 563	6 435	41.64	26.63	10.46	28.61	1.6203	-0.2217	21.4	42 612	17 486	
32 564	10 450	40.9	34.15	-5.95	34.66	1.8156	-0.6185	350.1	-1 496c	19 496	
33 566	11 460	39.46	35.97	-10.59	37.49	1.8923	-0.7413	343.5	-1 501c	20 501	
33 568	13 465	38.78	38.26	-17.87	42.23	1.9672	-0.9337	334.9	-1 513c	22 513	
34 570	14 470	37.03	39.0	-21.41	44.49	2.0339	-1.051	331.2	-1 522c	24 522	
35 575	15 475	34.07	39.2	-24.97	46.47	2.1312	-1.2058	327.4	-1 530c	26 530	Mm
36 582	16 480	28.91	38.02	-29.06	47.86	2.2957	-1.4779	322.6	-1 540c	28 540	
40 602	16 485	17.43	32.13	-34.48	47.13	2.8233	-2.4505	312.9	-1 551c	30 551	
-1 490c	18 490	6.66	13.13	-41.73	43.74	2.9514	-6.7332	287.4	11 459	33 566	min
-1 495c	19 495	8.22	11.65	-41.66	43.26	2.3981	-5.5382	285.6	12 462	33 567	
-1 499c	19 500	8.22	11.65	-41.66	43.26	2.3981	-5.5382	285.6	12 462	33 567	
-1 509c	21 510	12.33	7.68	-40.59	41.31	1.6036	-3.7648	280.7	13 466	33 568	
-1 520c	24 520	21.39	-0.51	-36.85	36.86	0.9567	-2.1957	269.2	14 472	34 572	Bm
-1 530c	26 530	29.31	-6.73	-33.27	33.94	0.7508	-1.608	258.5	15 475	35 575	
-1 540c	28 540	38.42	-12.87	-29.04	31.76	0.6456	-1.2287	246.0	15 478	35 579	
-1 544c	28 545	38.42	-12.87	-29.04	31.76	0.6456	-1.2287	246.0	15 478	35 579	
-1 549c	29 550	43.27	-15.68	-26.77	31.02	0.6183	-1.0915	239.6	15 479	36 581	
-1 555c	31 555	53.15	-20.29	-22.12	30.01	0.5989	-0.889	227.4	16 481	37 586	
-1 559c	31 560	53.15	-20.29	-22.12	30.01	0.5989	-0.889	227.4	16 481	37 586	
380	770	100.0	0.0	0.0	0.01	0.9807	-0.4729	0.0			

TUB-test chart BE32; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant C00; diagram for illuminant C00, $Y_w=100$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE32/BE32L0NP.PDF /PS
application for measurement of offset print output

TUB material: code=rha4ta

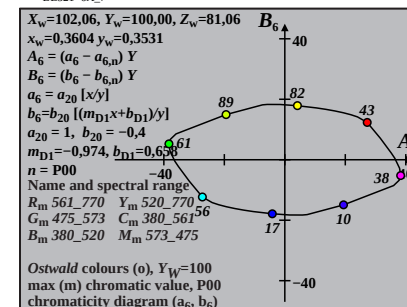
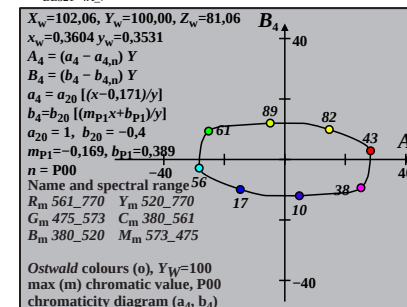
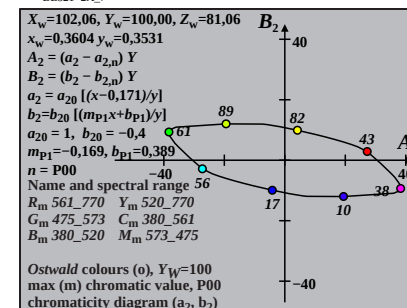
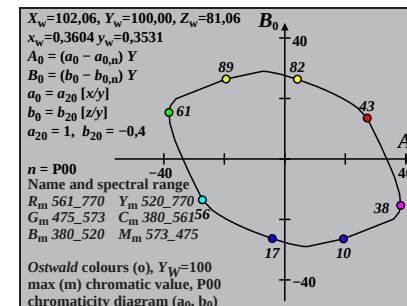
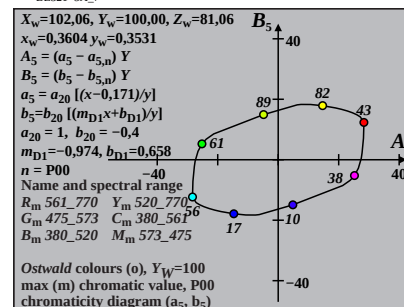
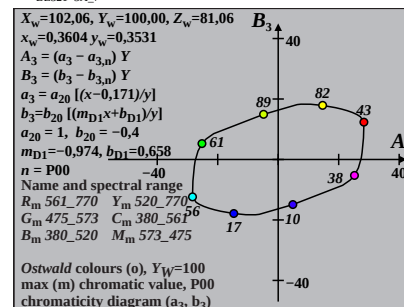
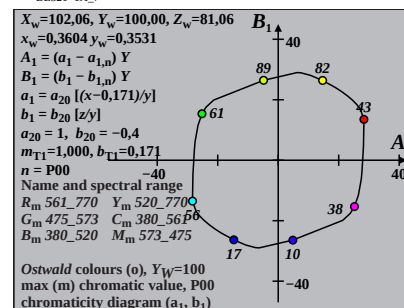
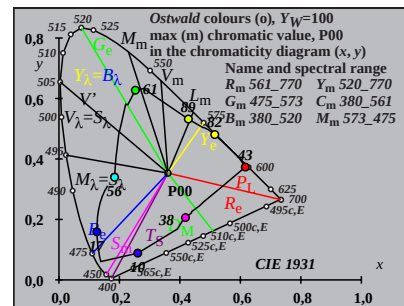
Ostwald optimal colours (o) of maximum (m) C_{AB} for P00, $Y_w=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	33 567	56.81	-27.23	-13.5	30.39	0.5413	-0.5619	206.3	17 486	38 594	Cm
7 435	33 567	57.13	-31.57	-4.72	31.93	0.4679	-0.407	188.5	18 491	-1 491c	
10 450	33 568	57.64	-35.18	3.35	35.34	0.4103	-0.2659	174.5	19 499	-1 499c	
12 460	34 570	58.3	-37.15	8.65	38.14	0.3834	-0.1758	166.8	21 507	-1 507c	
13 465	34 571	58.95	-37.79	11.05	39.37	0.3796	-0.1366	163.6	22 513	-1 513c	
13 470	34 572	60.46	-37.94	11.54	39.66	0.3931	-0.1332	163.0	23 515	-1 515c	
15 475	35 575	61.97	-38.31	15.35	41.28	0.4024	-0.0765	158.1	25 529	-1 529c	Gm
16 480	36 580	65.35	-37.8	17.59	41.69	0.4422	-0.055	155.0	27 537	-1 537c	
17 485	37 589	71.71	-35.37	20.53	40.9	0.5273	-0.0379	149.8	29 547	-1 547c	
18 490	45 625	88.93	-18.56	26.78	32.58	0.8119	-0.023	124.7	32 564	-1 564c	max
18 495	-1 494c	95.36	-8.56	28.86	30.11	0.9308	-0.0215	106.5	34 570	12 460	
20 500	-1 500c	92.62	-5.82	28.9	29.48	0.9577	-0.0121	101.3	34 571	13 465	
22 510	-1 510c	88.31	-1.53	28.05	28.09	1.0033	-0.0066	93.1	34 573	14 470	Ym
24 520	-1 520c	82.18	4.14	26.34	26.67	1.0711	-0.0036	81.0	35 575	14 474	
25 530	-1 529c	78.53	7.26	25.25	26.27	1.1131	-0.0027	73.9	35 577	15 476	
28 540	-1 540c	66.0	16.54	21.32	26.99	1.2713	-0.0011	52.1	36 582	16 481	
28 545	-1 544c	66.0	16.54	21.32	26.99	1.2713	-0.0011	52.1	36 582	16 481	
30 550	-1 550c	56.88	21.86	18.4	28.57	1.4049	-0.0007	40.0	37 586	16 483	
30 555	-1 554c	56.88	21.86	18.4	28.57	1.4049	-0.0007	40.0	37 586	16 483	
32 560	-1 560c	47.6	25.76	15.41	30.02	1.5618	-0.0005	30.8	38 591	17 485	
33 567	1 405	43.18	27.23	13.5	30.39	1.6513	-0.0115	26.3	38 594	17 486	Rm
33 567	7 435	42.86	31.57	4.72	31.93	1.7574	-0.2139	8.5	-1 491c	18 491	
33 568	10 450	42.35	35.18	-3.35	35.34	1.8513	-0.4035	354.5	-1 499c	19 499	
34 570	12 460	41.69	37.15	-8.65	38.14	1.9116	-0.5317	346.8	-1 507c	21 507	
34 571	13 465	41.04	37.79	-11.05	39.37	1.9414	-0.5937	343.6	-1 513c	22 513	
34 572	13 470	39.53	37.94	-11.54	39.66	1.9803	-0.6163	343.0	-1 515c	23 515	
35 575	15 475	38.02	38.31	-15.35	41.28	2.0285	-0.728	338.1	-1 529c	25 529	Mm
36 580	16 480	34.64	37.8	-17.59	41.69	2.1119	-0.8322	335.0	-1 537c	27 537	
37 589	17 485	28.28	35.37	-20.53	40.9	2.2712	-1.05	329.8	-1 547c	29 547	
45 625	18 490	11.06	18.56	-26.78	32.58	2.6987	-2.7452	304.7	-1 564c	32 564	min
-1 494c	18 495	4.63	8.56	-28.86	30.11	2.8709	-6.5585	286.5	12 460	34 570	
-1 500c	20 500	7.37	5.82	-28.9	29.48	1.8106	-4.2445	281.3	13 465	34 571	
-1 510c	22 510	11.68	1.53	-28.05	28.09	1.1518	-2.7253	273.1	14 470	34 573	Bm
-1 520c	24 520	17.81	-4.14	-26.34	26.67	0.7878	-1.8032	261.0	14 474	35 575	
-1 529c	25 530	21.46	-7.26	-25.25	26.27	0.6822	-1.5008	253.9	15 476	35 577	
-1 540c	28 540	33.99	-16.54	-21.32	26.99	0.5338	-0.9517	232.1	16 481	36 582	
-1 544c	28 545	33.99	-16.54	-21.32	26.99	0.5338	-0.9517	232.1	16 481	36 582	
-1 550c	30 550	43.11	-21.86	-18.4	28.57	0.5135	-0.7511	220.0	16 483	37 586	
-1 554c	30 555	43.11	-21.86	-18.4	28.57	0.5135	-0.7511	220.0	16 483	37 586	
-1 560c	32 560	52.39	-25.76	-15.41	30.02	0.5288	-0.6183	210.8	17 485	38 591	
380	770	100.0	0.0	0.0	0.01	1.0206	-0.3242	0.0			

TUB-test chart BE32; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant P00; diagram for illuminant P00, $Y_w=100$

input: w/rgb/cmyk -> rgb



Ostwald optimal colours (o) of maximum (m) C_{AB} for Q00, $Y_w=100$, $Y_m=520.770$

i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{ab}	i_d, λ_d	i_c, λ_c	Code
1 405	32 562	57.89	-22.38	-19.16	29.46	0.5925	-0.8068	220.5	16 482	38 590	Cm
7 435	32 562	58.38	-29.44	-4.98	29.86	0.475	-0.5611	189.5	17 488	-1 488c	
10 450	32 564	59.19	-34.99	7.32	35.75	0.3881	-0.3521	168.1	19 497	-1 497c	
11 460	33 566	60.58	-36.74	11.76	38.58	0.3728	-0.2816	162.2	20 502	-1 502c	
12 465	33 568	61.7	-38.14	15.8	41.28	0.3611	-0.2196	157.4	21 508	-1 508c	
14 470	34 570	62.97	-39.63	22.0	45.32	0.3499	-0.1264	150.9	24 522	-1 522c	
15 475	35 575	65.9	-39.82	25.39	47.22	0.3751	-0.0905	147.4	26 530	-1 530c	Gm
16 480	36 582	71.11	-38.67	29.38	48.57	0.4354	-0.0625	142.7	27 539	-1 539c	
17 485	40 602	81.95	-31.75	35.68	47.76	0.5918	-0.0404	131.6	30 552	-1 552c	
17 490	-1 489c	94.93	-14.93	41.85	44.44	0.8219	-0.0349	109.6	33 565	11 455	max
18 495	-1 494c	93.71	-13.86	42.13	44.35	0.8314	-0.0262	108.2	33 565	11 458	
20 500	-1 500c	90.31	-10.6	41.67	42.99	0.8619	-0.0144	104.2	33 567	12 463	
21 510	-1 509c	87.98	-8.35	40.94	41.78	0.8843	-0.0105	101.5	33 568	13 465	
23 520	-1 519c	81.84	-2.67	38.48	38.57	0.9466	-0.0056	93.9	34 571	14 470	Ym
26 530	-1 530c	69.63	7.21	32.97	33.76	1.0829	-0.0022	77.6	35 576	15 475	
27 540	-1 539c	65.08	10.41	30.86	32.57	1.1393	-0.0016	71.3	35 578	15 477	
28 545	-1 544c	60.41	13.41	28.67	31.66	1.2014	-0.0012	64.9	36 580	15 478	
29 550	-1 549c	55.69	16.15	26.44	30.98	1.2693	-0.0009	58.5	36 582	15 479	
30 555	-1 554c	50.96	18.54	24.21	30.49	1.3431	-0.0007	52.5	36 584	16 480	
31 560	-1 559c	46.27	20.53	21.98	30.08	1.4231	-0.0006	46.9	37 587	16 481	
32 562	1 405	42.1	22.38	19.16	29.46	1.511	-0.0207	40.5	38 590	16 482	Rm
32 562	7 435	41.61	29.44	4.98	29.86	1.6868	-0.3561	9.5	-1 488c	17 488	
32 564	10 450	40.8	34.99	-7.32	35.75	1.8369	-0.6552	348.1	-1 497c	19 497	
33 566	11 460	39.41	36.74	-11.76	38.58	1.9117	-0.7742	342.2	-1 502c	20 502	
33 568	12 465	38.29	38.14	-15.8	41.28	1.9752	-0.8885	337.4	-1 508c	21 508	
34 570	14 470	37.02	39.63	-22.0	45.32	2.0496	-1.07	330.9	-1 522c	24 522	
35 575	15 475	34.09	39.82	-25.39	47.22	2.1473	-1.2205	327.4	-1 530c	26 530	Mm
36 582	16 480	28.88	38.67	-29.38	48.57	2.318	-1.493	322.7	-1 539c	27 539	
40 602	17 485	18.04	31.75	-35.68	47.76	2.739	-2.4531	311.6	-1 552c	30 552	
-1 489c	17 490	5.06	14.93	-41.85	44.44	3.9292	-8.7425	289.6	11 455	33 565	min
-1 494c	18 495	6.28	13.86	-42.13	44.35	3.1842	-7.1782	288.2	11 458	33 565	
-1 500c	20 500	9.68	10.6	-41.66	42.99	2.0746	-4.7793	284.2	12 463	33 567	
-1 509c	21 510	12.01	8.35	-40.94	41.78	1.6748	-3.8842	281.5	13 465	33 568	
-1 519c	23 520	18.15	2.67	-38.48	38.57	1.1265	-2.5962	273.9	14 470	34 571	Bm
-1 530c	26 530	30.36	-7.21	-32.97	33.76	0.7416	-1.562	257.6	15 475	35 576	
-1 539c	27 540	34.91	-10.41	-30.86	32.57	0.6809	-1.3598	251.3	15 477	35 578	
-1 544c	28 545	39.58	-13.41	-28.67	31.66	0.6402	-1.2003	244.9	15 478	36 580	
-1 549c	29 550	44.3	-16.15	-26.44	30.98	0.6148	-1.0727	238.5	15 479	36 582	
-1 554c	30 555	49.03	-18.54	-24.21	30.49	0.6011	-0.9695	232.5	16 480	36 584	
-1 559c	31 560	53.72	-20.53	-21.98	30.08	0.5971	-0.885	226.9	16 481	37 587	
380	770	100.0	0.0	0.0	0.01	0.9793	-0.4758	0.0			

TUB-test chart BE32; CIE (x, y) and chromatic values (A_i, B_i)

Ostwald optimal colours for illuminant Q00; diagram for illuminant Q00, $Y_w=100$

input: w/rgb/cmyk -> rgb

