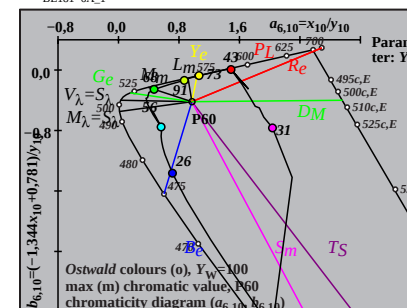
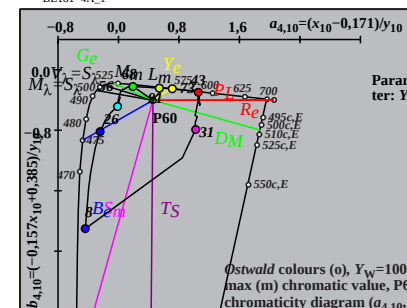
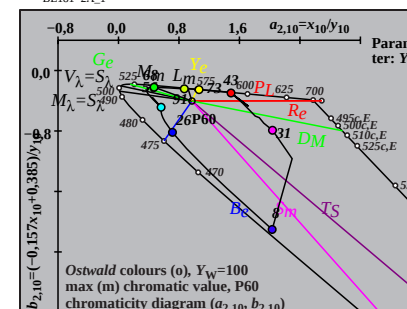
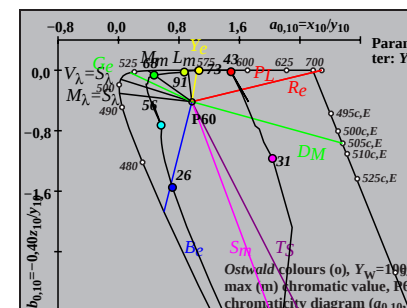
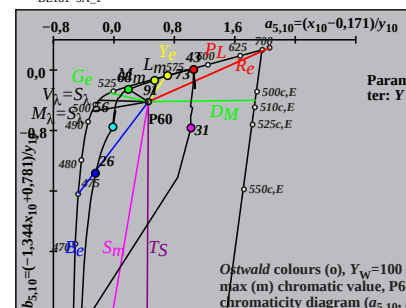
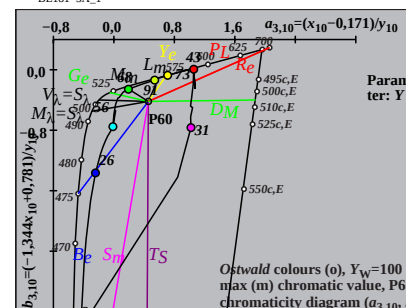
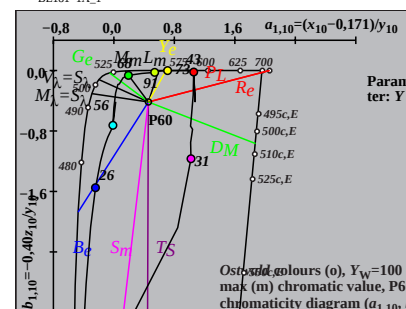
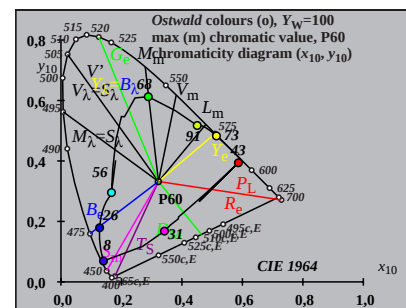


Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P60, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	31 557	31.66	56.06	101.81	0.167	0.2957	0.5371	193.1	15 477	37 587	Cm
7 435	31 559	25.96	56.56	69.22	0.171	0.3727	0.4561	164.9	16 483	-1 483c	
9 450	32 561	23.69	57.37	51.31	0.1789	0.4333	0.3876	144.7	17 489	-1 489c	
12 460	32 563	21.22	58.05	26.89	0.1999	0.5468	0.2532	119.6	21 505	-1 505c	
13 465	33 566	22.19	59.57	20.38	0.2172	0.5831	0.1995	112.7	22 514	-1 514c	
14 470	34 571	25.2	62.58	15.06	0.245	0.6084	0.1464	105.6	24 524	-1 524c	
14 475	36 580	32.58	69.18	15.06	0.2788	0.5921	0.1289	99.4	26 531	-1 531c	Gm
15 480	41 605	54.91	82.76	10.97	0.3694	0.5567	0.0738	78.1	30 550	-1 550c	
16 485	-1 484c	79.72	92.83	7.93	0.4417	0.5143	0.0439	56.7	32 561	10 453	
18 490	-1 490c	79.54	89.72	4.07	0.4588	0.5176	0.0234	53.6	32 563	11 458	max
19 495	-1 495c	79.52	87.78	2.89	0.4672	0.5157	0.0169	51.7	32 564	12 461	
20 500	-1 500c	79.48	85.54	2.04	0.4757	0.512	0.0122	49.5	33 565	12 463	
21 510	-1 509c	79.36	82.98	1.42	0.4845	0.5066	0.0087	47.0	33 566	12 464	
24 520	-1 520c	78.04	73.29	0.43	0.5142	0.4828	0.0028	38.1	34 571	13 469	Ym
26 530	-1 530c	75.93	65.52	0.16	0.5361	0.4626	0.0011	31.4	34 574	14 472	
28 540	-1 540c	72.61	57.09	0.03	0.5596	0.44	0.0003	24.4	35 578	14 474	
29 545	-1 545c	70.47	52.78	0.01	0.5717	0.4281	0.0001	21.0	36 581	15 475	
30 550	-1 550c	67.98	48.45	0.0	0.5838	0.4161	0.0	17.8	36 583	15 476	
31 555	-1 555c	65.12	44.14	0.0	0.596	0.4039	0.0	14.7	37 586	15 476	
31 560	8 442	73.81	45.29	42.89	0.4556	0.2795	0.2647	338.4	-1 485c	17 485	
31 557	1 405	65.42	43.93	2.2	0.5864	0.3937	0.0197	13.1	37 587	15 477	Rm
31 559	7 435	71.13	43.43	34.79	0.4762	0.2908	0.2329	344.9	-1 483c	16 483	
32 561	9 450	73.4	42.62	52.69	0.435	0.2526	0.3123	324.8	-1 489c	17 489	
32 563	12 460	75.87	41.94	77.12	0.3891	0.2151	0.3956	299.7	-1 505c	21 505	
33 566	13 465	74.9	40.42	83.62	0.3764	0.2031	0.4203	292.7	-1 514c	22 514	
34 571	14 470	71.89	37.41	88.95	0.3626	0.1887	0.4486	285.6	-1 524c	24 524	
36 580	14 475	64.51	30.81	88.95	0.35	0.1672	0.4826	279.5	-1 531c	26 531	Mm
41 605	15 480	42.17	17.23	93.03	0.2766	0.113	0.6103	258.2	-1 550c	30 550	
-1 484c	16 485	17.36	7.16	96.08	0.144	0.0593	0.7965	236.8	10 453	32 561	min
-1 490c	18 490	17.54	10.27	99.94	0.1373	0.0804	0.7822	233.6	11 458	32 563	
-1 495c	19 495	17.56	12.21	101.12	0.1342	0.0932	0.7725	231.7	12 461	32 564	
-1 500c	20 500	17.61	14.45	101.97	0.1313	0.1078	0.7607	229.5	12 463	33 565	
-1 509c	21 510	17.73	17.01	102.58	0.1291	0.1239	0.7469	227.1	12 464	33 566	
-1 520c	24 520	19.04	26.7	103.57	0.1275	0.1788	0.6936	218.1	13 469	34 571	Bm
-1 530c	26 530	21.15	34.47	103.85	0.1326	0.2161	0.6511	211.4	14 472	34 574	
-1 540c	28 540	24.47	42.9	103.97	0.1428	0.2503	0.6067	204.4	14 474	35 578	
-1 545c	29 545	26.62	47.21	104.0	0.1496	0.2655	0.5848	201.0	15 475	36 581	
-1 550c	30 550	29.11	51.54	104.01	0.1576	0.2791	0.5632	197.8	15 476	36 583	
-1 555c	31 555	31.96	55.85	104.01	0.1666	0.2911	0.5422	194.7	15 476	37 586	
8 442	31 560	23.27	54.7	61.12	0.1673	0.3932	0.4393	158.4	17 485	-1 485c	
380	770	97.09	99.99	104.01	0.3224	0.3321	0.3454	0.0			

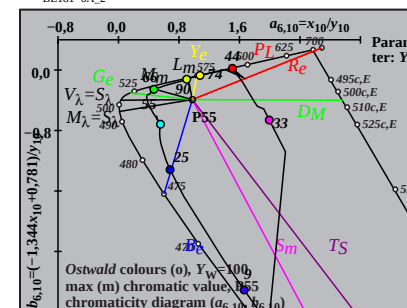
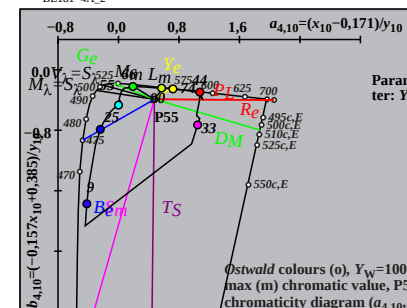
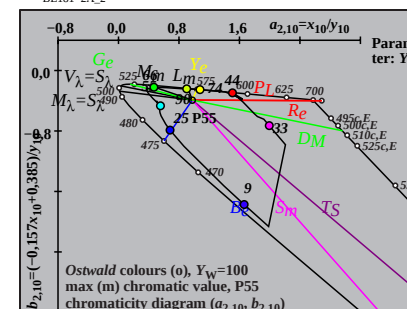
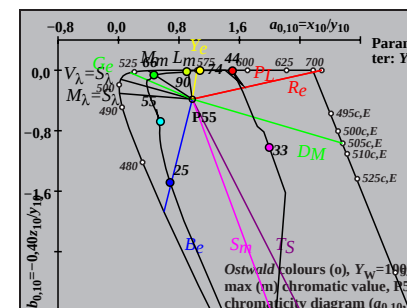
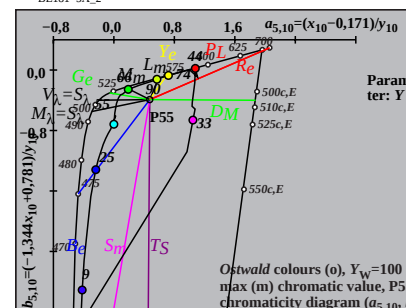
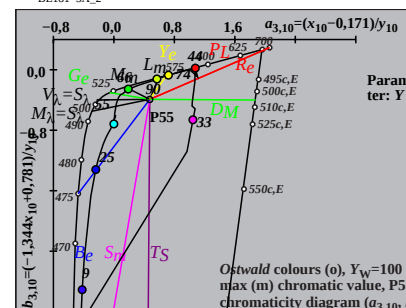
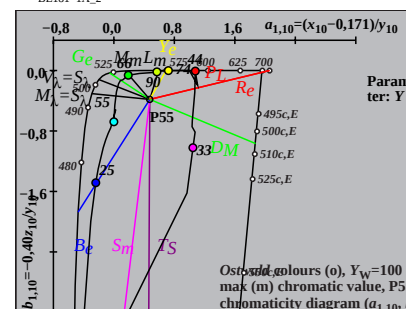
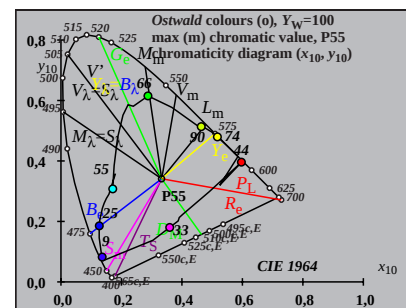
TUB-test chart BE18; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}, b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P60; diagram for illuminant P60, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P55, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
0 405	31 558	31.06	55.84	94.72	0.171	0.3074	0.5215	191.7	15 477	37 587	Cm
7 435	32 560	25.74	56.27	64.4	0.1758	0.3843	0.4398	164.6	16 484	-1 484c	
10 450	32 561	22.24	56.6	39.99	0.1871	0.4763	0.3365	137.1	18 493	-1 493c	
12 460	32 564	21.43	57.63	25.44	0.205	0.5514	0.2434	121.2	21 505	-1 505c	
12 465	33 566	23.3	59.72	25.44	0.2147	0.5506	0.2346	119.4	21 507	-1 507c	
14 470	34 571	25.08	61.75	14.37	0.2478	0.6101	0.142	107.5	24 523	-1 523c	
15 475	35 579	31.23	66.7	10.51	0.2879	0.615	0.0969	99.3	26 533	-1 533c	Gm
16 480	39 599	49.72	78.29	7.63	0.3665	0.5771	0.0562	81.9	29 548	-1 548c	
16 485	-1 484c	81.8	93.33	7.63	0.4475	0.5106	0.0417	55.9	32 562	10 454	
17 490	-1 489c	81.68	91.95	5.5	0.4559	0.5133	0.0307	54.4	32 563	11 456	max
19 495	-1 495c	81.61	88.5	2.81	0.4719	0.5117	0.0162	50.8	33 565	12 461	
20 500	-1 500c	81.57	86.34	1.99	0.4801	0.5081	0.0117	48.6	33 566	12 463	
22 510	-1 510c	81.22	81.02	0.97	0.4976	0.4964	0.0059	43.3	33 568	13 467	
24 520	-1 520c	80.17	74.38	0.43	0.5172	0.4799	0.0028	36.9	34 571	14 470	Ym
25 530	-1 529c	79.27	70.66	0.27	0.5277	0.4704	0.0018	33.5	34 573	14 471	
27 540	-1 539c	76.6	62.6	0.08	0.5499	0.4494	0.0006	26.5	35 577	14 474	
28 545	-1 544c	74.79	58.35	0.03	0.5615	0.4381	0.0002	23.0	35 579	15 475	
29 550	-1 549c	72.65	54.04	0.01	0.5733	0.4265	0.0001	19.5	36 581	15 475	
31 555	-1 555c	67.28	45.37	0.0	0.5972	0.4027	0.0	13.1	37 586	15 477	
32 560	6 430	68.25	41.55	20.22	0.5249	0.3195	0.1555	353.6	45 629	16 482	
31 558	0 405	66.59	44.15	0.83	0.5968	0.3957	0.0074	11.7	37 587	15 477	Rm
32 560	7 435	71.91	43.72	31.14	0.4899	0.2979	0.2121	344.6	-1 484c	16 484	
32 561	10 450	75.41	43.39	55.56	0.4324	0.2488	0.3186	317.1	-1 493c	18 493	
32 564	12 460	76.22	42.36	70.1	0.4039	0.2245	0.3715	301.3	-1 505c	21 505	
33 566	12 465	74.35	40.27	70.1	0.4025	0.218	0.3794	299.4	-1 507c	21 507	
34 571	14 470	72.56	38.24	81.17	0.3779	0.1992	0.4228	287.6	-1 523c	24 523	
35 579	15 475	66.42	33.29	85.03	0.3595	0.1802	0.4602	279.3	-1 533c	26 533	Mm
39 599	16 480	47.93	21.7	87.92	0.3042	0.1377	0.558	261.9	-1 548c	29 548	
-1 484c	16 485	15.84	6.66	87.92	0.1435	0.0603	0.7961	235.9	10 454	32 562	
-1 489c	17 490	15.97	8.04	90.05	0.14	0.0705	0.7894	234.5	11 456	32 563	min
-1 495c	19 495	16.03	11.49	92.73	0.1333	0.0955	0.771	230.8	12 461	33 565	
-1 500c	20 500	16.07	13.65	93.56	0.1304	0.1107	0.7588	228.6	12 463	33 566	
-1 510c	22 510	16.43	18.97	94.57	0.1264	0.1459	0.7276	223.3	13 467	33 568	
-1 520c	24 520	17.48	25.61	95.11	0.1264	0.1853	0.6881	217.0	14 470	34 571	Bm
-1 529c	25 530	18.38	29.33	95.28	0.1285	0.2051	0.6663	213.6	14 471	34 573	
-1 539c	27 540	21.05	37.39	95.46	0.1367	0.2429	0.6202	206.5	14 474	35 577	
-1 544c	28 545	22.86	41.64	95.51	0.1428	0.2602	0.5968	203.0	15 475	35 579	
-1 549c	29 550	25.0	45.95	95.54	0.1501	0.276	0.5738	199.5	15 475	36 581	
-1 555c	31 555	30.37	54.62	95.55	0.1682	0.3025	0.5292	193.1	15 477	37 586	
6 430	32 560	29.4	58.44	75.32	0.1801	0.3581	0.4616	173.6	16 482	45 629	
380	770	97.65	100.0	95.55	0.333	0.341	0.3258	0.0			

TUB-test chart BE18; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}, b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P55; diagram for illuminant P55, $Y_{w,10}=100$



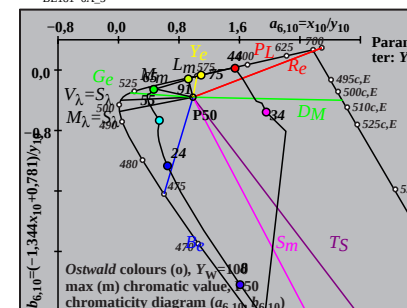
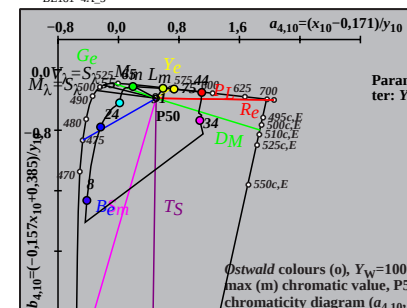
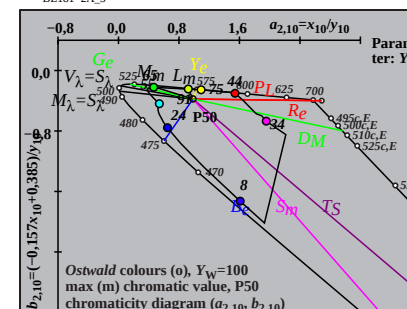
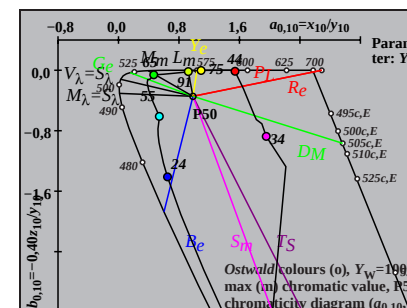
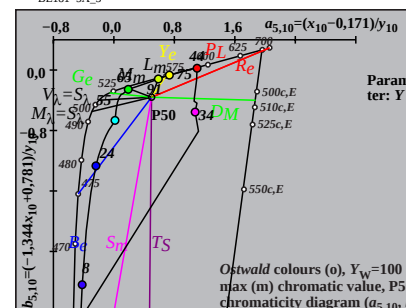
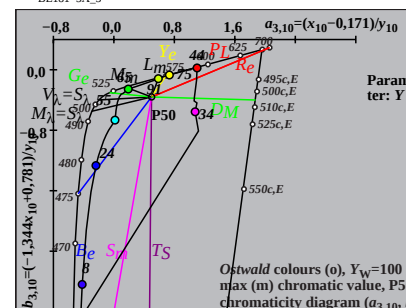
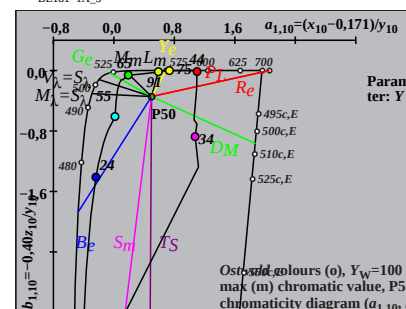
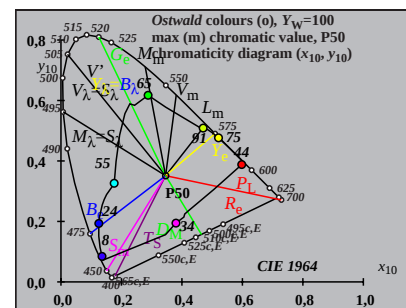
TUB registration: 20170801-BE18/BE18L0NA.TXT /PS
application for measurement of offset print output

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P50, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	32 560	29.94	55.5	84.55	0.1761	0.3264	0.4973	188.3	15 479	37 589	Cm
7 435	32 561	25.58	55.89	58.96	0.1821	0.3979	0.4198	164.0	17 485	-1 485c	
9 450	32 562	23.78	56.57	44.32	0.1907	0.4537	0.3554	146.5	18 490	-1 490c	
12 460	33 565	21.71	57.12	23.77	0.2115	0.5567	0.2317	123.1	21 505	-1 505c	
13 465	33 567	22.57	58.35	18.18	0.2277	0.5887	0.1834	116.4	22 513	-1 513c	
14 470	34 571	25.02	60.79	13.56	0.2518	0.6117	0.1364	109.8	24 523	-1 523c	
14 475	35 578	30.83	66.09	13.56	0.279	0.5981	0.1227	105.1	25 529	-1 529c	Gm
16 480	38 593	45.35	74.98	7.26	0.3553	0.5876	0.0569	87.7	29 546	-1 546c	
17 485	-1 485c	84.22	92.59	5.26	0.4625	0.5085	0.0289	53.4	32 564	11 457	
18 490	-1 490c	84.18	91.09	3.79	0.4701	0.5086	0.0211	51.7	33 565	11 459	max
18 495	-1 494c	84.18	91.09	3.79	0.4701	0.5086	0.0211	51.7	33 565	11 459	
20 500	-1 500c	84.12	87.25	1.93	0.4853	0.5034	0.0111	47.4	33 566	12 464	
22 510	-1 510c	83.78	82.13	0.95	0.502	0.4922	0.0057	42.0	33 569	13 467	
24 520	-1 520c	82.75	75.67	0.42	0.5209	0.4763	0.0026	35.5	34 572	14 470	Ym
26 530	-1 530c	80.71	68.14	0.16	0.5416	0.4573	0.001	28.4	35 575	14 473	
28 540	-1 540c	77.44	59.85	0.03	0.5638	0.4358	0.0002	21.2	35 579	15 475	
29 545	-1 545c	75.3	55.55	0.01	0.5753	0.4244	0.0001	17.7	36 581	15 476	
30 550	-1 550c	72.81	51.21	0.0	0.587	0.4129	0.0	14.3	36 584	15 477	
31 555	-1 555c	69.92	46.85	0.0	0.5987	0.4012	0.0	11.1	37 586	15 478	
32 560	-1 560c	66.64	42.52	0.0	0.6104	0.3895	0.0	8.2	37 589	15 479	
32 560	1 405	68.56	44.49	1.62	0.5978	0.388	0.0141	8.2	37 589	15 479	Rm
32 561	7 435	72.92	44.1	27.2	0.5055	0.3057	0.1886	344.0	-1 485c	17 485	
32 562	9 450	74.72	43.42	41.84	0.467	0.2714	0.2615	326.5	-1 490c	18 490	
33 565	12 460	76.79	42.87	62.39	0.4218	0.2354	0.3426	303.2	-1 505c	21 505	
33 567	13 465	75.94	41.64	67.98	0.4092	0.2244	0.3663	296.5	-1 513c	22 513	
34 571	14 470	73.48	39.2	72.61	0.3965	0.2115	0.3918	289.9	-1 523c	24 523	
35 578	14 475	67.67	33.9	72.61	0.3885	0.1946	0.4168	285.2	-1 529c	25 529	Mm
38 593	16 480	53.16	25.01	78.9	0.3384	0.1592	0.5023	267.7	-1 546c	29 546	
-1 485c	17 485	14.28	7.4	80.9	0.1392	0.0721	0.7886	233.4	11 457	32 564	min
-1 490c	18 490	14.33	8.9	82.37	0.1356	0.0843	0.7799	231.7	11 459	33 565	
-1 494c	18 495	14.33	8.9	82.37	0.1356	0.0843	0.7799	231.7	11 459	33 565	
-1 500c	20 500	14.38	12.74	84.23	0.1291	0.1144	0.7563	227.5	12 464	33 566	
-1 510c	22 510	14.73	17.86	85.21	0.125	0.1516	0.7233	222.1	13 467	33 569	
-1 520c	24 520	15.75	24.32	85.74	0.1252	0.1933	0.6814	215.5	14 470	34 572	Bm
-1 530c	26 530	17.79	31.85	86.01	0.1311	0.2347	0.634	208.4	14 473	35 575	
-1 540c	28 540	21.06	40.14	86.13	0.1429	0.2724	0.5845	201.2	15 475	35 579	
-1 545c	29 545	23.2	44.44	86.15	0.1508	0.2889	0.5601	197.7	15 476	36 581	
-1 550c	30 550	25.7	48.78	86.16	0.1599	0.3036	0.5363	194.3	15 477	36 584	
-1 555c	31 555	28.58	53.14	86.17	0.1702	0.3165	0.5132	191.1	15 478	37 586	
-1 560c	32 560	31.86	57.47	86.17	0.1815	0.3274	0.4909	188.2	15 479	37 589	
380	770	98.51	99.99	86.17	0.346	0.3512	0.3026	0.0			

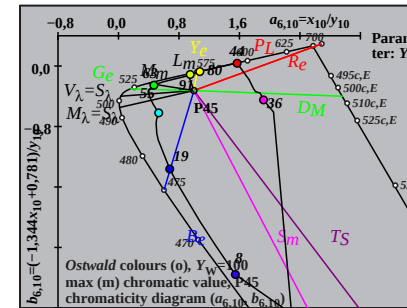
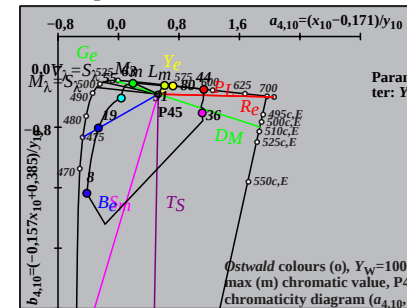
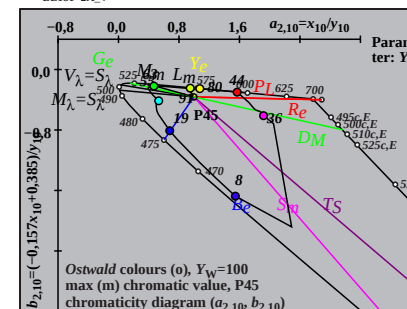
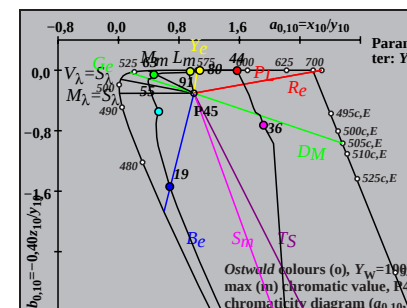
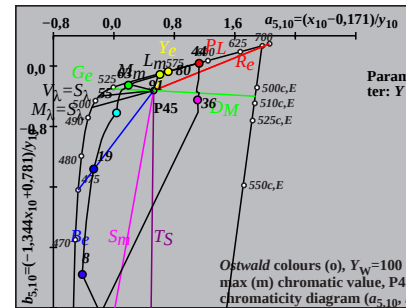
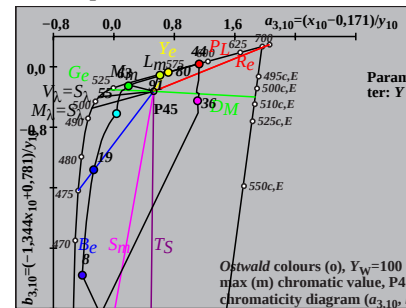
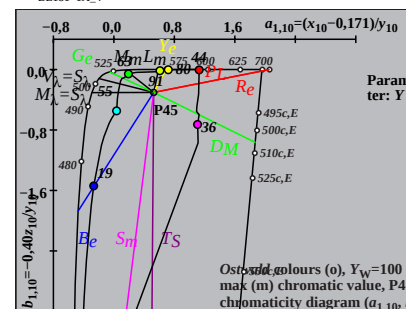
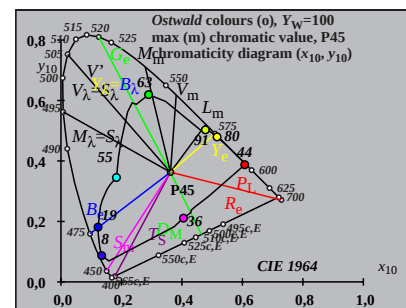
TUB-test chart BE18; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}, b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P50; diagram for illuminant P50, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P45, $Y_{w,10}=100$, $Y_m=520_{-770}$

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	32 561	29.13	55.06	74.49	0.1835	0.3469	0.4694	185.0	16 480	38 590	Cm
7 435	32 562	25.46	55.42	52.8	0.1904	0.4145	0.3949	163.2	17 486	-1 486c	
10 450	32 564	22.73	55.71	33.64	0.2028	0.497	0.3001	139.8	18 494	-1 494c	
11 460	33 566	23.1	56.99	27.5	0.2147	0.5296	0.2556	131.4	19 499	-1 499c	
13 465	33 568	22.89	57.58	16.79	0.2353	0.5919	0.1726	118.9	22 513	-1 513c	
13 470	34 571	25.63	60.41	16.79	0.2492	0.5874	0.1632	116.6	23 516	-1 516c	
15 475	35 577	29.66	63.43	9.31	0.2896	0.6193	0.0909	105.7	26 532	-1 532c	Gm
15 480	37 589	41.71	72.59	9.31	0.3374	0.5871	0.0753	96.2	28 542	-1 542c	
17 485	51 659	85.51	92.6	4.98	0.467	0.5057	0.0272	53.6	32 564	10 454	
18 490	-1 490c	87.32	91.92	3.61	0.4775	0.5027	0.0197	50.4	33 566	12 460	max
19 495	-1 495c	87.3	90.26	2.6	0.4845	0.5009	0.0144	48.4	33 566	12 462	
20 500	-1 500c	87.26	88.3	1.85	0.4918	0.4976	0.0104	46.0	33 567	12 464	
22 510	-1 510c	86.94	83.42	0.92	0.5075	0.487	0.0054	40.4	34 570	13 468	
23 520	-1 519c	86.55	80.46	0.63	0.5162	0.4799	0.0037	37.2	34 571	14 470	Ym
25 530	-1 529c	85.09	73.64	0.26	0.5351	0.4631	0.0016	30.0	34 574	14 473	
27 540	-1 539c	82.5	65.84	0.08	0.5558	0.4435	0.0005	22.6	35 578	15 475	
29 545	-1 545c	78.6	57.39	0.01	0.5779	0.4219	0.0	15.3	36 582	15 477	
29 550	-1 549c	78.6	57.39	0.01	0.5779	0.4219	0.0	15.3	36 582	15 477	
30 555	-1 554c	76.1	53.06	0.0	0.5891	0.4107	0.0	11.9	36 584	15 478	
32 560	-1 560c	69.9	44.31	0.0	0.612	0.3879	0.0	5.7	38 590	16 480	
32 561	1 405	70.66	44.93	1.31	0.6044	0.3843	0.0112	5.0	38 590	16 480	Rm
32 562	7 435	74.33	44.57	22.99	0.5238	0.314	0.162	343.2	-1 486c	17 486	
32 564	10 450	77.06	44.28	42.16	0.4713	0.2708	0.2578	319.9	-1 494c	18 494	
33 566	11 460	76.69	43.0	48.3	0.4565	0.2559	0.2875	311.4	-1 499c	19 499	
33 568	13 465	76.9	42.41	59.01	0.4312	0.2378	0.3309	298.9	-1 513c	22 513	
34 571	13 470	74.16	39.58	59.01	0.4292	0.2291	0.3415	296.7	-1 516c	23 516	
35 577	15 475	70.13	36.56	66.48	0.4049	0.2111	0.3838	285.8	-1 532c	26 532	Mm
37 589	15 480	58.08	27.4	66.48	0.3821	0.1803	0.4374	276.3	-1 542c	28 542	
51 659	17 485	14.29	7.39	70.82	0.1544	0.0799	0.7656	233.7	10 454	32 564	
-1 490c	18 490	12.48	8.07	72.19	0.1345	0.087	0.7783	230.4	12 460	33 566	min
-1 495c	19 495	12.49	9.73	73.2	0.1309	0.102	0.767	228.4	12 462	33 566	
-1 500c	20 500	12.53	11.69	73.95	0.1276	0.1191	0.7532	226.1	12 464	33 567	
-1 510c	22 510	12.86	16.57	74.88	0.1233	0.1588	0.7178	220.5	13 468	34 570	
-1 519c	23 520	13.24	19.53	75.17	0.1227	0.1809	0.6963	217.2	14 470	34 571	Bm
-1 529c	25 530	14.7	26.35	75.54	0.1261	0.226	0.6478	210.1	14 473	34 574	
-1 539c	27 540	17.29	34.15	75.72	0.1359	0.2685	0.5954	202.6	15 475	35 578	
-1 545c	29 545	21.19	42.6	75.79	0.1518	0.3051	0.5429	195.3	15 477	36 582	
-1 549c	29 550	21.19	42.6	75.79	0.1518	0.3051	0.5429	195.3	15 477	36 582	
-1 554c	30 555	23.69	46.93	75.8	0.1618	0.3205	0.5176	191.9	15 478	36 584	
-1 560c	32 560	29.9	55.68	75.8	0.1852	0.345	0.4696	185.7	16 480	38 590	
380	770	99.8	100.0	75.8	0.3621	0.3628	0.275	0.0			

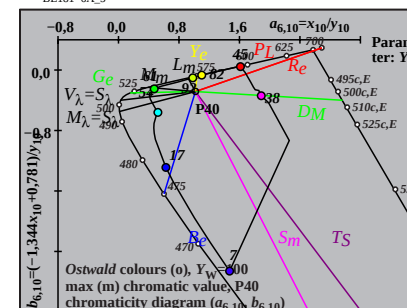
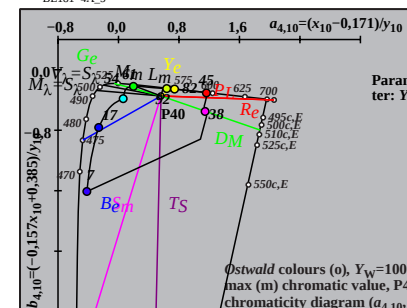
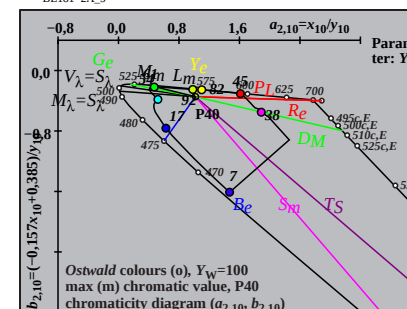
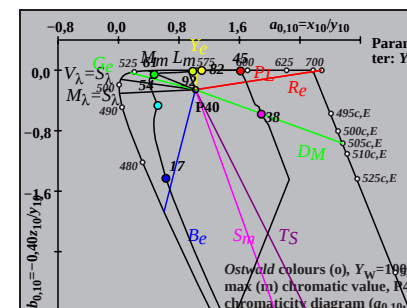
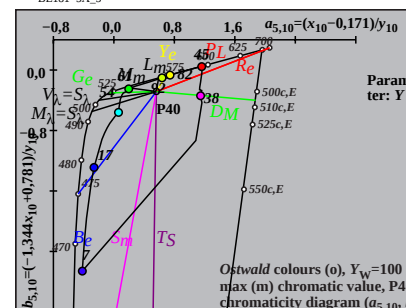
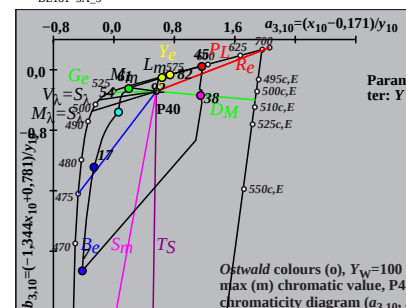
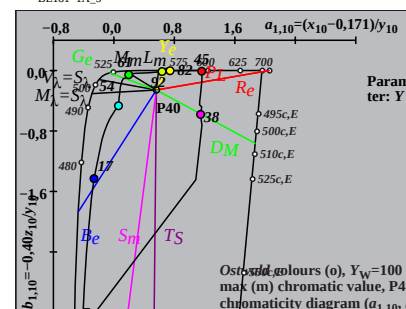
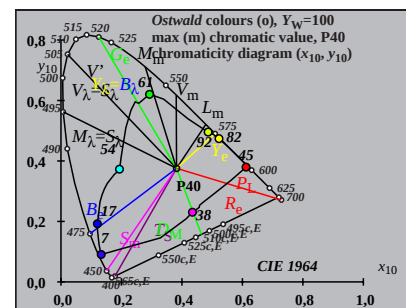
TUB-test chart BE18; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}, b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P45; diagram for illuminant P45, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P40, $Y_{w,10}=100$, $Y_m=520-770$

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
0 405	32 563	28.47	54.51	64.02	0.1937	0.3708	0.4354	181.4	16 481	38 591	Cm
7 435	32 564	25.4	54.82	45.87	0.2014	0.4347	0.3638	161.8	17 487	-1 487c	
10 450	33 565	23.18	55.07	29.74	0.2146	0.5099	0.2753	141.2	19 495	-1 495c	
12 460	33 567	22.73	55.74	19.55	0.2319	0.5686	0.1994	127.9	21 505	-1 505c	
12 465	33 568	24.04	57.17	19.55	0.2386	0.5673	0.194	126.8	21 506	-1 506c	
14 470	34 571	25.22	58.4	11.45	0.2652	0.6142	0.1204	116.0	24 521	-1 521c	
15 475	35 576	29.04	61.5	8.53	0.2931	0.6206	0.0861	109.9	26 531	-1 531c	Gm
16 480	37 585	38.18	67.98	6.3	0.3394	0.6044	0.056	100.5	28 542	-1 542c	
17 485	42 611	65.29	82.81	4.63	0.4274	0.5421	0.0303	74.7	31 558	-1 558c	
17 490	-1 489c	91.31	94.15	4.63	0.4803	0.4952	0.0243	50.6	33 566	11 458	max
19 495	-1 495c	91.26	91.34	2.45	0.4931	0.4935	0.0132	46.7	33 568	12 463	
20 500	-1 500c	91.22	89.52	1.76	0.4998	0.4905	0.0096	44.3	33 569	13 465	
22 510	-1 510c	90.92	84.94	0.88	0.5143	0.4805	0.005	38.4	34 571	13 469	
23 520	-1 519c	90.55	82.13	0.61	0.5225	0.4739	0.0035	35.0	34 572	14 471	Ym
25 530	-1 529c	89.15	75.59	0.25	0.5403	0.4581	0.0015	27.5	35 575	14 474	
28 540	-1 540c	84.88	63.89	0.03	0.5703	0.4293	0.0002	15.9	36 581	15 477	
28 545	-1 544c	84.88	63.89	0.03	0.5703	0.4293	0.0002	15.9	36 581	15 477	
30 550	-1 550c	80.29	55.35	0.0	0.5919	0.408	0.0	8.7	37 585	15 479	
31 555	-1 555c	77.38	50.95	0.0	0.6029	0.397	0.0	5.5	37 587	16 480	
31 560	-1 559c	77.38	50.95	0.0	0.6029	0.397	0.0	5.5	37 587	16 480	
32 563	0 405	73.27	45.48	0.42	0.6147	0.3816	0.0035	1.4	38 591	16 481	Rm
32 564	7 435	76.34	45.17	18.57	0.5449	0.3224	0.1325	341.9	-1 487c	17 487	
33 565	10 450	78.56	44.92	34.7	0.4966	0.2839	0.2193	321.3	-1 495c	19 495	
33 567	12 460	79.01	44.25	44.88	0.4698	0.2631	0.2669	307.9	-1 505c	21 505	
33 568	12 465	77.7	42.82	44.88	0.4697	0.2589	0.2713	306.8	-1 506c	21 506	
34 571	14 470	76.52	41.59	52.99	0.4472	0.243	0.3097	296.1	-1 521c	24 521	
35 576	15 475	72.7	38.49	55.9	0.435	0.2303	0.3345	290.0	-1 531c	26 531	Mm
37 585	16 480	63.56	32.01	58.13	0.4135	0.2082	0.3782	280.6	-1 542c	28 542	
42 611	17 485	36.45	17.18	59.81	0.3213	0.1514	0.5272	254.8	-1 558c	31 558	
-1 489c	17 490	10.43	5.84	59.81	0.1371	0.0767	0.786	230.6	11 458	33 566	min
-1 495c	19 495	10.48	8.65	61.99	0.1292	0.1066	0.764	226.7	12 463	33 568	
-1 500c	20 500	10.52	10.47	62.68	0.1257	0.1251	0.7491	224.3	13 465	33 569	
-1 510c	22 510	10.83	15.05	63.55	0.121	0.1683	0.7106	218.4	13 469	34 571	
-1 519c	23 520	11.19	17.86	63.83	0.1205	0.1922	0.6871	215.0	14 471	34 572	Bm
-1 529c	25 530	12.59	24.4	64.18	0.1244	0.2412	0.6343	207.5	14 474	35 575	
-1 540c	28 540	16.86	36.1	64.4	0.1436	0.3075	0.5487	195.9	15 477	36 581	
-1 544c	28 545	16.86	36.1	64.4	0.1436	0.3075	0.5487	195.9	15 477	36 581	
-1 550c	30 550	21.45	44.64	64.44	0.1643	0.342	0.4936	188.7	15 479	37 585	
-1 555c	31 555	24.36	49.04	64.44	0.1767	0.3557	0.4675	185.5	16 480	37 587	
-1 559c	31 560	24.36	49.04	64.44	0.1767	0.3557	0.4675	185.5	16 480	37 587	
380	770	101.75	100.0	64.44	0.3822	0.3756	0.2421	0.0			

TUB-test chart BE18; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}, b_{i,10}$) input: w/rgb/cmyk $\rightarrow$ rgb
Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_{w,10}=100$



TUB registration: 20170801-BE18/BE18L0NA.TXT /.PS
application for measurement of offset print output

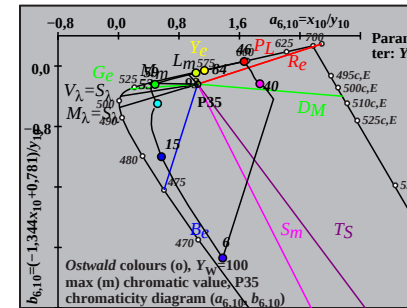
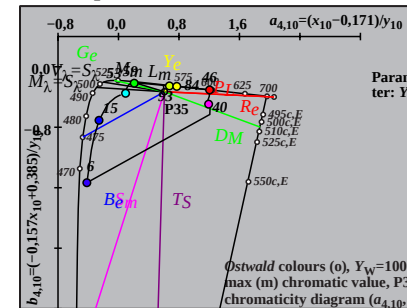
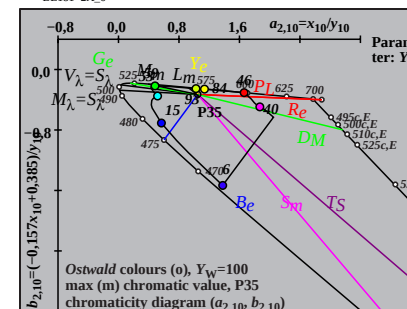
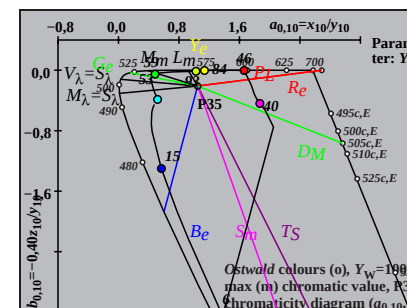
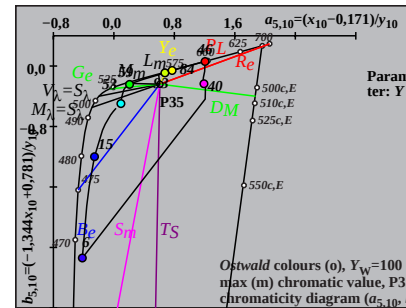
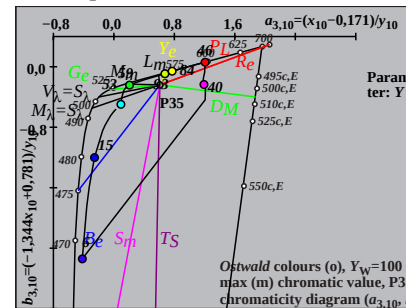
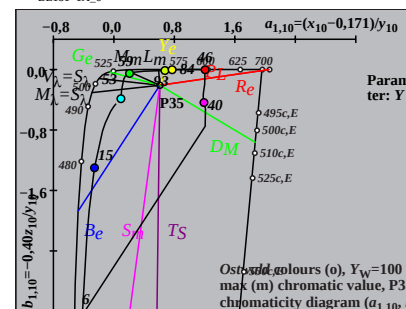
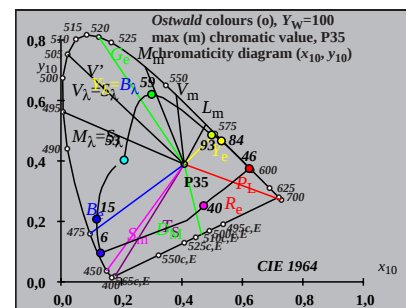
TUB material: code=rha4ta

see similar files: <http://farbe.li.tu-berlin.de/BE18/BE18.HTM>
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P35, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	33 566	27.75	53.73	51.44	0.2087	0.4042	0.387	175.7	16 484	38 594	Cm
7 435	33 566	25.61	54.01	38.12	0.2175	0.4586	0.3237	159.9	17 488	58 694	
10 450	33 567	23.89	54.22	25.26	0.231	0.5245	0.2444	142.5	19 496	-1 496c	
12 460	33 568	23.52	54.77	16.9	0.2471	0.5753	0.1775	130.7	21 505	-1 505c	
12 465	34 570	24.62	55.93	16.9	0.2526	0.5739	0.1734	129.9	21 506	-1 506c	
14 470	34 572	25.61	56.88	10.08	0.2766	0.6144	0.1089	120.1	24 521	-1 521c	
14 475	35 576	28.96	59.98	10.08	0.2924	0.6057	0.1018	118.0	24 524	-1 524c	Gm
16 480	36 583	35.5	64.25	5.66	0.3368	0.6094	0.0537	107.8	28 540	-1 540c	
17 485	39 598	52.31	74.44	4.19	0.3994	0.5684	0.032	92.5	30 552	-1 552c	
17 490	-1 489c	96.42	95.09	4.19	0.4926	0.4858	0.0214	48.6	33 568	11 459	max
18 495	-1 494c	96.38	93.95	3.09	0.4982	0.4857	0.0159	46.7	33 569	12 461	
19 500	-1 499c	96.37	92.58	2.26	0.5039	0.4841	0.0118	44.5	34 570	12 464	
22 510	-1 510c	96.06	86.74	0.83	0.523	0.4723	0.0045	35.7	34 572	14 470	Ym
24 520	-1 520c	95.17	81.19	0.38	0.5384	0.4593	0.0022	28.1	35 575	14 473	
26 530	-1 530c	93.33	74.43	0.15	0.5558	0.4432	0.0008	20.0	35 578	15 476	
27 540	-1 539c	91.97	70.65	0.08	0.5652	0.4342	0.0005	15.9	36 580	15 478	
28 545	-1 544c	90.26	66.66	0.03	0.575	0.4246	0.0002	11.9	36 581	15 479	
30 550	-1 550c	85.74	58.24	0.0	0.5954	0.4044	0.0	4.6	37 586	16 481	
31 555	-1 555c	82.83	53.86	0.0	0.6059	0.394	0.0	1.3	37 588	16 482	
32 560	-1 560c	79.47	49.42	0.0	0.6165	0.3834	0.0	358.3	38 591	16 483	
33 566	1 405	76.96	46.26	0.71	0.6209	0.3732	0.0057	355.7	38 594	16 484	Rm
33 566	7 435	79.1	45.98	14.03	0.5685	0.3305	0.1008	339.9	58 694	17 488	
33 567	10 450	80.82	45.77	26.89	0.5265	0.2982	0.1752	322.5	-1 496c	19 496	
33 568	12 460	81.18	45.22	35.26	0.5021	0.2797	0.2181	310.8	-1 505c	21 505	
34 570	12 465	80.09	44.06	35.26	0.5024	0.2764	0.2211	310.0	-1 506c	21 506	
34 572	14 470	79.1	43.11	42.07	0.4814	0.2624	0.2561	300.2	-1 521c	24 521	
35 576	14 475	75.75	40.01	42.07	0.4799	0.2534	0.2665	298.0	-1 524c	24 524	Mm
36 583	16 480	69.2	35.74	46.49	0.4569	0.236	0.307	287.8	-1 540c	28 540	
39 598	17 485	52.39	25.55	47.96	0.4161	0.2029	0.3809	272.6	-1 552c	30 552	
-1 489c	17 490	8.29	4.9	47.96	0.1355	0.0802	0.7842	228.6	11 459	33 568	min
-1 494c	18 495	8.32	6.04	49.07	0.1312	0.0952	0.7735	226.7	12 461	33 569	
-1 499c	19 500	8.33	7.41	49.9	0.127	0.1128	0.76	224.5	12 464	34 570	
-1 510c	22 510	8.65	13.25	51.32	0.1181	0.1809	0.7008	215.7	14 470	34 572	
-1 520c	24 520	9.53	18.8	51.77	0.119	0.2347	0.6462	208.1	14 473	35 575	Bm
-1 530c	26 530	11.37	25.56	52.01	0.1279	0.2873	0.5847	200.0	15 476	35 578	
-1 539c	27 540	12.74	29.34	52.07	0.1353	0.3116	0.553	195.9	15 478	36 580	
-1 544c	28 545	14.44	33.33	52.12	0.1445	0.3336	0.5217	191.9	15 479	36 581	
-1 550c	30 550	18.97	41.75	52.15	0.168	0.3698	0.462	184.6	16 481	37 586	
-1 555c	31 555	21.87	46.13	52.16	0.182	0.3839	0.434	181.3	16 482	37 588	
-1 560c	32 560	25.23	50.57	52.16	0.1972	0.3952	0.4075	178.3	16 483	38 591	
380	770	104.71	99.99	52.16	0.4076	0.3892	0.203	0.0			

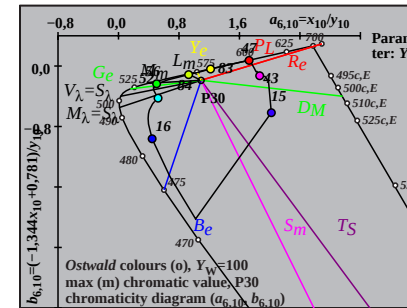
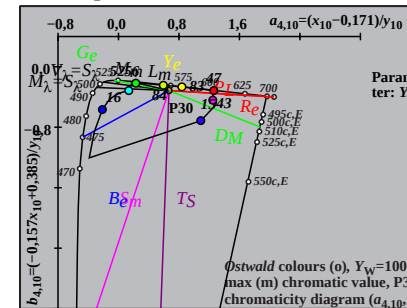
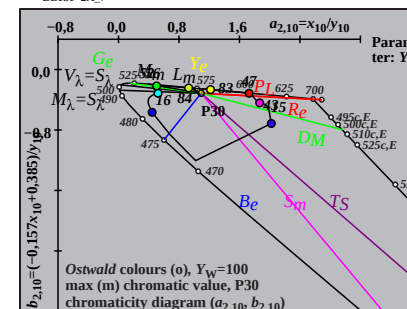
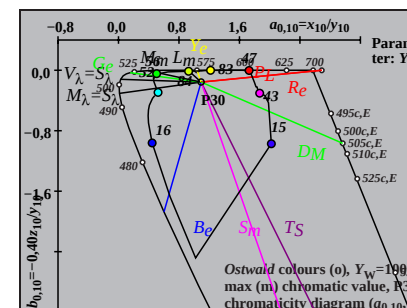
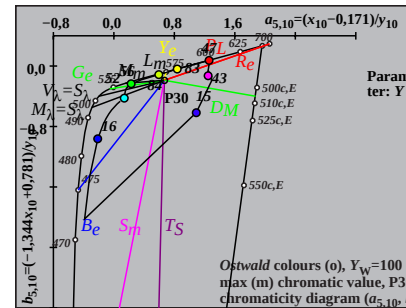
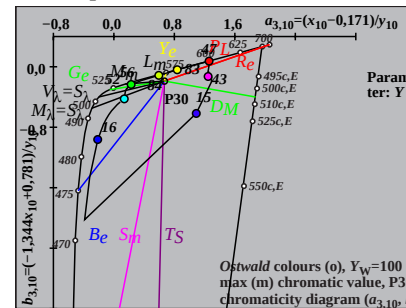
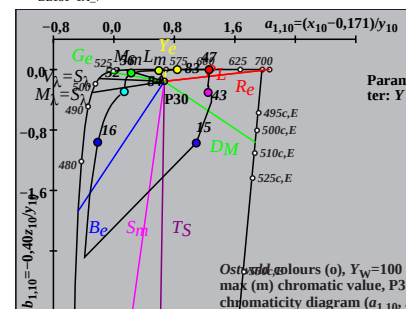
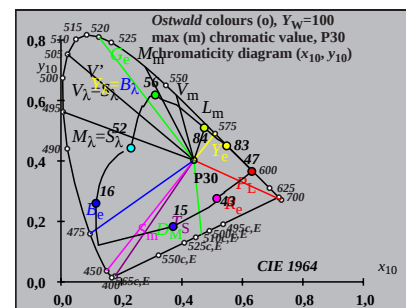
TUB-test chart BE18; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}, b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P35; diagram for illuminant P35, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P30, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	33 569	27.54	52.67	38.75	0.2314	0.4427	0.3257	169.0	17 486	39 596	Cm
6 435	33 569	26.62	52.97	32.23	0.238	0.4737	0.2882	160.5	17 489	43 615	
9 450	34 570	25.48	53.24	23.47	0.2493	0.5209	0.2296	148.0	18 494	-1 494c	
12 460	34 571	24.7	53.48	13.81	0.2685	0.5813	0.1501	133.7	21 505	-1 505c	
13 465	34 572	25.16	54.01	10.93	0.2792	0.5994	0.1213	129.1	22 512	-1 512c	
14 470	34 573	26.34	55.05	8.45	0.2931	0.6127	0.094	124.8	24 520	-1 520c	
14 475	35 576	28.9	57.35	8.45	0.3051	0.6055	0.0892	123.5	24 523	-1 523c	Gm
15 480	36 581	33.68	60.98	6.44	0.3331	0.6031	0.0637	117.9	26 534	-1 534c	
16 485	38 590	43.87	67.78	4.86	0.3765	0.5817	0.0417	109.4	29 546	-1 546c	
18 490	44 620	78.94	84.98	2.72	0.4737	0.5099	0.0163	72.4	32 564	-1 564c	max
19 495	-1 495c	103.18	94.0	2.01	0.5179	0.4719	0.0101	41.6	34 572	13 465	
20 500	-1 500c	103.15	92.59	1.47	0.523	0.4694	0.0074	38.8	34 572	13 467	
21 510	-1 509c	103.07	90.89	1.07	0.5284	0.466	0.0055	35.6	34 573	13 469	Ym
23 520	-1 519c	102.59	86.52	0.54	0.5409	0.4562	0.0028	27.9	35 575	14 473	
26 530	-1 530c	100.39	77.56	0.14	0.5636	0.4355	0.0008	14.9	35 579	15 478	
28 540	-1 540c	97.47	70.17	0.03	0.5812	0.4185	0.0002	6.4	36 583	16 481	
29 545	-1 545c	95.47	66.16	0.01	0.5906	0.4093	0.0	2.6	37 585	16 482	
30 550	-1 550c	93.06	61.97	0.0	0.6002	0.3997	0.0	359.0	37 587	16 483	
31 555	-1 555c	90.18	57.64	0.0	0.61	0.3899	0.0	355.8	37 589	16 484	
32 560	-1 560c	86.82	53.2	0.0	0.62	0.3799	0.0	352.8	38 592	17 485	
33 569	1 405	81.75	47.32	0.44	0.6311	0.3653	0.0034	349.0	39 596	17 486	Rm
33 569	6 435	82.67	47.02	6.96	0.6049	0.344	0.0509	340.5	43 615	17 489	
34 570	9 450	83.8	46.75	15.72	0.5728	0.3196	0.1075	328.1	-1 494c	18 494	
34 571	12 460	84.58	46.51	25.38	0.5405	0.2972	0.1622	313.7	-1 505c	21 505	
34 572	13 465	84.13	45.98	28.26	0.5311	0.2903	0.1784	309.2	-1 512c	22 512	
34 573	14 470	82.95	44.94	30.74	0.5228	0.2833	0.1938	304.9	-1 520c	24 520	
35 576	14 475	80.38	42.64	30.74	0.5227	0.2772	0.1999	303.5	-1 523c	24 523	Mm
36 581	15 480	75.61	39.01	32.75	0.513	0.2646	0.2222	298.0	-1 534c	26 534	
38 590	16 485	65.42	32.21	34.33	0.4957	0.2441	0.2601	289.4	-1 546c	29 546	
44 620	18 490	30.34	15.01	36.47	0.3708	0.1834	0.4457	252.5	-1 564c	32 564	min
-1 495c	19 495	6.11	5.99	37.18	0.1239	0.1215	0.7544	221.6	13 465	34 572	
-1 500c	20 500	6.13	7.4	37.72	0.1197	0.1444	0.7357	218.8	13 467	34 572	
-1 509c	21 510	6.21	9.1	38.12	0.1163	0.1704	0.7132	215.6	13 469	34 573	
-1 519c	23 520	6.69	13.47	38.65	0.1138	0.229	0.657	208.0	14 473	35 575	Bm
-1 530c	26 530	8.9	22.43	39.05	0.1264	0.3186	0.5548	194.9	15 478	35 579	
-1 540c	28 540	11.82	29.82	39.16	0.1463	0.369	0.4846	186.4	16 481	36 583	
-1 545c	29 545	13.82	33.83	39.18	0.1591	0.3896	0.4512	182.6	16 482	37 585	
-1 550c	30 550	16.23	38.02	39.19	0.1737	0.4068	0.4194	179.0	16 483	37 587	
-1 555c	31 555	19.1	42.35	39.19	0.1898	0.4207	0.3894	175.7	16 484	37 589	
-1 560c	32 560	22.46	46.79	39.19	0.2071	0.4314	0.3614	172.8	17 485	38 592	
380	770	109.29	99.99	39.19	0.4398	0.4024	0.1577	0.0			

TUB-test chart BE18; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}, b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P30; diagram for illuminant P30, $Y_{w,10}=100$



TUB registration: 20170801-BE18/BE18L0NA.TXT /PS
application for measurement of offset print output

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P25, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	34 573	28.05	51.09	25.91	0.267	0.4863	0.2466	160.7	18 490	39 599	Cm
6 435	34 573	27.6	51.3	22.18	0.273	0.5075	0.2194	155.2	18 492	42 613	
9 450	34 573	26.95	51.5	16.72	0.2832	0.541	0.1757	146.7	19 497	-1 497c	
12 460	34 574	26.45	51.67	10.28	0.2991	0.5844	0.1163	136.3	21 506	-1 506c	
12 465	35 575	27.08	52.27	10.28	0.3021	0.5831	0.1147	136.1	21 507	-1 507c	
13 470	35 576	27.91	53.01	8.28	0.3129	0.5942	0.0928	132.5	22 513	-1 513c	
15 475	35 577	29.31	53.87	5.05	0.3321	0.6105	0.0572	126.7	25 527	-1 527c	Gm
16 480	36 580	32.49	56.11	3.88	0.3513	0.6066	0.042	123.4	27 536	-1 536c	
17 485	37 586	38.47	60.05	2.96	0.3791	0.5916	0.0292	119.3	28 544	-1 544c	
18 490	39 597	52.93	68.64	2.24	0.4274	0.5543	0.0181	110.3	31 555	-1 555c	max
19 495	58 690	112.13	95.41	1.68	0.5359	0.4559	0.008	38.2	35 575	13 466	
20 500	-1 500c	112.6	94.45	1.25	0.5405	0.4534	0.006	34.4	35 575	13 469	
21 510	-1 509c	112.53	93.06	0.92	0.5448	0.4506	0.0044	30.7	35 576	14 471	
24 520	-1 520c	111.7	87.05	0.32	0.561	0.4372	0.0016	17.3	35 579	15 477	Ym
26 530	-1 530c	110.18	81.48	0.13	0.5744	0.4248	0.0006	7.7	36 581	16 481	
27 540	-1 539c	109.0	78.23	0.07	0.5819	0.4176	0.0003	3.1	36 583	16 482	
28 545	-1 544c	107.49	74.69	0.03	0.5898	0.4099	0.0001	358.8	37 585	16 484	
29 550	-1 549c	105.61	70.92	0.01	0.5982	0.4017	0.0	354.9	37 586	17 485	
31 555	-1 555c	100.51	62.71	0.0	0.6157	0.3842	0.0	348.3	38 591	17 487	
31 560	-1 559c	100.51	62.71	0.0	0.6157	0.3842	0.0	348.3	38 591	17 487	
34 573	1 405	88.48	48.9	0.22	0.643	0.3553	0.0016	340.8	39 599	18 490	Rm
34 573	6 435	88.94	48.69	3.95	0.6281	0.3438	0.0279	335.2	42 613	18 492	
34 573	9 450	89.58	48.49	9.4	0.6073	0.3288	0.0637	326.8	-1 497c	19 497	
34 574	12 460	90.09	48.32	15.84	0.584	0.3132	0.1027	316.4	-1 506c	21 506	
35 575	12 465	89.46	47.72	15.84	0.5845	0.3118	0.1035	316.1	-1 507c	21 507	
35 576	13 470	88.62	46.98	17.85	0.5775	0.3061	0.1163	312.5	-1 513c	22 513	
35 577	15 475	87.23	46.12	21.08	0.5648	0.2986	0.1365	306.7	-1 527c	25 527	Mm
36 580	16 480	84.04	43.88	22.25	0.5596	0.2922	0.1481	303.5	-1 536c	27 536	
37 586	17 485	78.06	39.94	23.17	0.5529	0.2829	0.1641	299.4	-1 544c	28 544	
39 597	18 490	63.61	31.35	23.89	0.5351	0.2637	0.201	290.3	-1 555c	31 555	min
58 690	19 495	4.4	4.58	24.44	0.1318	0.1372	0.7309	218.2	13 466	35 575	
-1 500c	20 500	3.94	5.54	24.88	0.1147	0.1612	0.724	214.4	13 469	35 575	
-1 509c	21 510	4.0	6.93	25.21	0.1108	0.1918	0.6972	210.8	14 471	35 576	
-1 520c	24 520	4.84	12.94	25.8	0.111	0.2968	0.592	197.3	15 477	35 579	Bm
-1 530c	26 530	6.36	18.51	26.0	0.125	0.3638	0.511	187.7	16 481	36 581	
-1 539c	27 540	7.54	21.76	26.06	0.1361	0.3931	0.4706	183.1	16 482	36 583	
-1 544c	28 545	9.05	25.3	26.1	0.1496	0.4185	0.4317	178.8	16 484	37 585	
-1 549c	29 550	10.92	29.07	26.12	0.1652	0.4396	0.395	174.9	17 485	37 586	
-1 555c	31 555	16.02	37.28	26.13	0.2017	0.4692	0.329	168.3	17 487	38 591	
-1 559c	31 560	16.02	37.28	26.13	0.2017	0.4692	0.329	168.3	17 487	38 591	
380	770	116.54	99.99	26.13	0.4802	0.412	0.1077	0.0			

TUB-test chart BE18; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}, b_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P25; diagram for illuminant P25, $Y_{w,10}=100$

