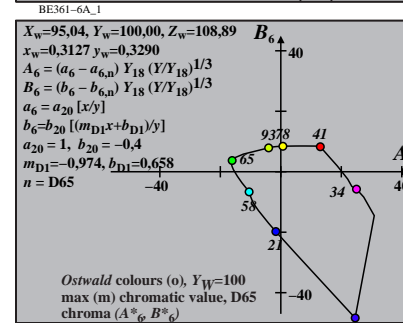
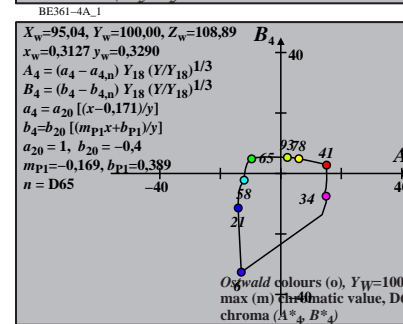
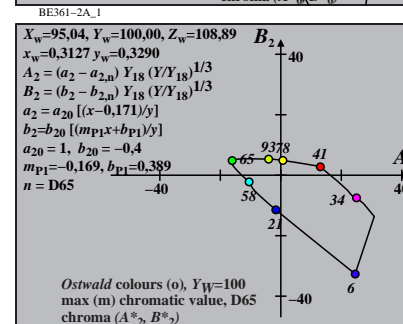
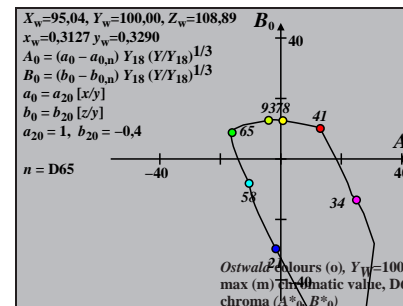
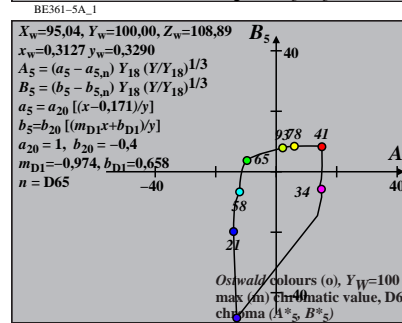
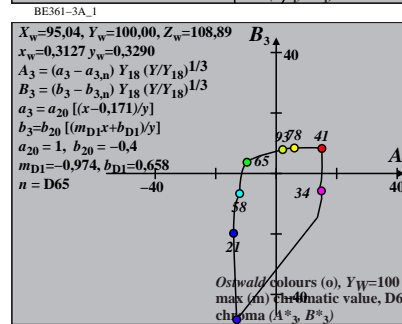
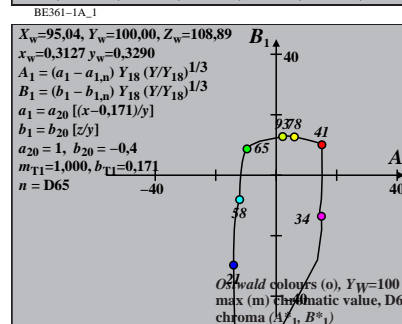
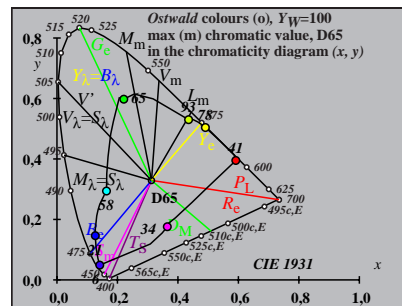


Ostwald optimal colours (o) of maximum (m) C_{AB} for D65, $Y_w=100, Y_m=520, 770$

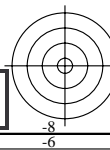
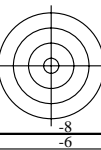
i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
0	405	32	561	80.85	-67.55	-32.53	74.98	0.1805	-0.1029	205.7	16 483 37 589 Cm
6	435	32	562	81.18	-81.89	-19.25	84.12	0.1732	-0.096	193.2	17 486 42 610
10	450	32	563	81.52	-109.06	11.43	109.66	0.1595	-0.0803	174.0	19 496 -1 496c
12	460	33	565	82.01	-120.74	33.26	125.24	0.1538	-0.0692	164.5	21 505 -1 505c
12	465	33	567	82.74	-118.76	34.5	123.67	0.1552	-0.0687	163.8	21 506 -1 506c
14	470	33	569	83.3	-123.47	57.53	136.22	0.1532	-0.0572	155.0	24 520 -1 520c
15	475	34	573	84.63	-118.73	70.39	138.03	0.1564	-0.0512	149.3	25 528 -1 528c Gm
16	480	36	580	86.98	-107.21	84.2	136.33	0.1633	-0.0452	141.8	27 537 -1 537c
17	485	39	595	91.12	-80.53	100.07	128.46	0.1778	-0.0394	128.8	29 548 -1 548c
18	490	-1	490c	97.55	-23.15	119.05	121.28	0.2052	-0.0337	101.0	33 565 11 459 max
19	495	-1	495c	96.94	-20.63	125.42	127.1	0.2062	-0.0306	99.3	33 566 12 462
20	500	-1	500c	96.17	-17.33	131.15	132.29	0.2076	-0.0277	97.5	33 567 12 464
22	510	-1	510c	94.0	-8.24	140.17	140.41	0.2116	-0.0224	93.3	33 569 13 469
23	520	-1	519c	92.57	-2.53	142.99	143.01	0.2142	-0.0202	91.0	34 570 14 471 Ym
25	530	-1	529c	88.94	10.79	144.39	144.79	0.2205	-0.0165	85.7	34 573 15 475
27	540	-1	539c	84.43	25.54	141.4	143.69	0.2281	-0.0134	79.7	35 577 15 478
28	545	-1	544c	81.91	33.05	138.34	142.24	0.2322	-0.0121	76.5	35 579 15 479
29	550	-1	549c	79.2	40.58	134.51	140.5	0.2367	-0.0111	73.2	36 582 16 480
30	555	-1	554c	76.32	47.96	130.1	138.66	0.2413	-0.0103	69.7	36 584 16 481
32	560	-1	560c	70.18	61.63	120.13	135.02	0.2511	-0.0093	62.8	37 589 16 483
32	561	0	405	70.73	60.89	110.07	125.79	0.2505	-0.022	61.0	37 589 16 483 Rm
32	562	6	435	70.32	70.59	34.83	78.71	0.2562	-0.0659	26.2	42 610 17 486
32	563	10	450	69.88	85.85	-12.65	86.77	0.2653	-0.0935	351.6	-1 496c 19 496
33	565	12	460	69.24	92.89	-29.54	97.47	0.2698	-0.1035	342.3	-1 505c 21 505
33	567	12	465	68.27	94.84	-31.22	99.85	0.2716	-0.1046	341.7	-1 506c 21 506
33	569	14	470	67.48	99.24	-42.98	108.15	0.2748	-0.1119	336.5	-1 520c 24 520
34	573	15	475	65.52	102.87	-49.85	114.31	0.2784	-0.1167	334.1	-1 528c 25 528 Mm
36	580	16	480	61.69	107.96	-59.02	123.04	0.2848	-0.1241	331.3	-1 537c 27 537
39	595	17	485	53.22	112.99	-75.47	135.88	0.297	-0.1406	326.2	-1 548c 29 548
-1	490c	18	490	29.91	89.01	-117.0	147.01	0.3124	-0.2136	307.2	11 459 33 565 min
-1	495c	19	495	33.36	74.42	-112.09	134.55	0.2908	-0.1997	303.5	12 462 33 566
-1	500c	20	500	37.09	58.44	-106.44	121.43	0.2704	-0.1864	298.7	12 464 33 567
-1	510c	22	510	45.26	23.9	-93.37	96.38	0.2349	-0.1623	284.3	13 469 33 569
-1	519c	23	520	49.52	6.76	-86.32	86.58	0.2205	-0.152	274.4	14 471 34 570 Bm
-1	529c	25	530	58.0	-23.98	-72.06	75.95	0.1992	-0.1348	251.5	15 475 34 573
-1	539c	27	540	65.83	-46.7	-58.75	75.05	0.1868	-0.122	231.5	15 478 35 577
-1	544c	28	545	69.38	-54.68	-52.68	75.93	0.1833	-0.117	223.9	15 479 35 579
-1	549c	29	550	72.72	-60.59	-46.95	76.65	0.1812	-0.1126	217.7	16 480 36 582
-1	554c	30	555	75.82	-64.5	-41.62	76.77	0.1803	-0.1088	212.8	16 481 36 584
-1	560c	32	560	81.29	-66.96	-32.22	74.32	0.181	-0.1027	205.6	16 483 37 589
380	770	100.0	0.0	0.0	0.0	0.0	0.2154	-0.0861	0.0		

see similar files: http://farbe.li.tu-berlin.de/BE36/BE36.HTM
 technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik



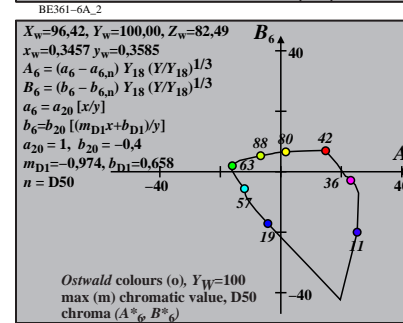
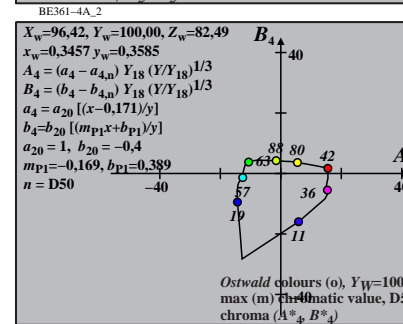
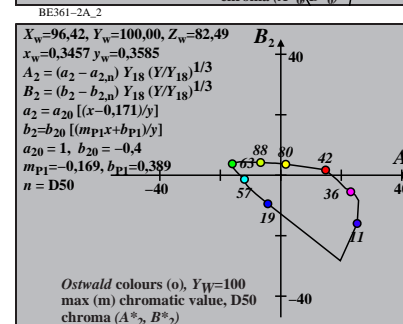
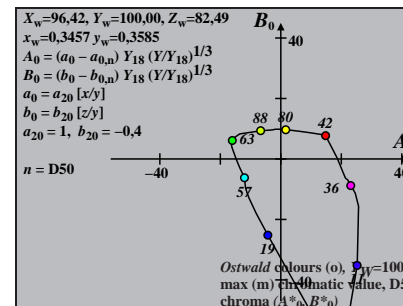
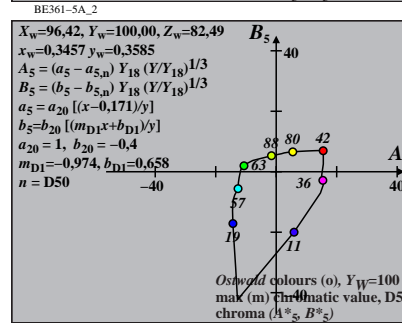
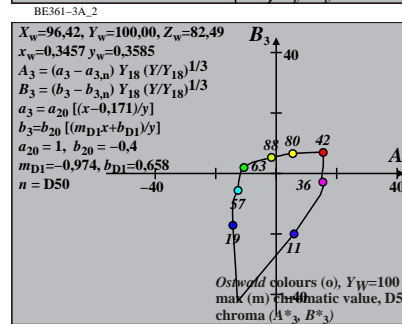
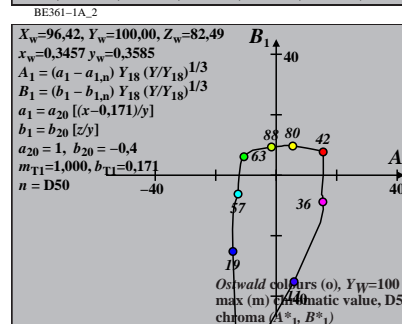
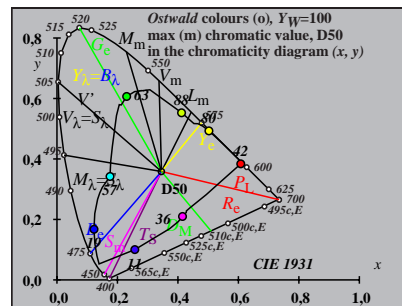
TUB registration: 20170801-BE36/BE36LONP.PDF /.PS
 application for measurement of offset print output

TUB material: code=rh4ta



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	L*	A*	B*	C* _{AB}	a'	b'	h _{a'b'}	i _d , λ _d	i _c , λ _c	Code	
1	405	32 564	80.64	-79.12	-32.66	85.6	0.1753	-0.0939	202.4	17 486	38 592	Cm
7	435	33 565	80.84	-92.99	-16.32	94.42	0.1682	-0.0862	189.9	18 490	46 634	
10	450	33 566	81.12	-108.34	7.14	108.58	0.1604	-0.0752	176.2	19 497	-1 497c	
12	460	33 567	81.46	-116.97	28.06	120.29	0.1561	-0.0654	166.5	21 506	-1 506c	
13	465	33 568	81.82	-119.26	39.57	125.66	0.1552	-0.0601	161.6	22 511	-1 511c	
14	470	34 570	82.4	-119.22	51.38	129.82	0.1555	-0.0547	156.6	23 519	-1 519c	
15	475	34 573	83.39	-115.8	63.56	132.1	0.1579	-0.0494	151.2	25 527	-1 527c	Gm
15	480	35 578	85.46	-107.76	67.11	126.95	0.1631	-0.0484	148.0	26 531	-1 531c	
17	485	37 587	88.09	-90.84	90.18	128.01	0.1726	-0.039	135.2	28 544	-1 544c	
18	490	44 620	95.17	-39.39	110.34	117.16	0.1986	-0.0333	109.6	32 561	-1 561c	max
19	495	-1 495c	97.49	-13.34	121.9	122.63	0.2105	-0.0295	96.2	33 568	12 463	
20	500	-1 500c	96.81	-10.45	127.99	128.42	0.2118	-0.0268	94.6	33 569	13 466	
22	510	-1 510c	94.88	-2.34	137.84	137.86	0.2153	-0.0218	90.9	34 571	14 471	
23	520	-1 519c	93.58	2.85	141.13	141.16	0.2177	-0.0198	88.8	34 572	14 473	Ym
25	530	-1 529c	90.23	15.24	146.8	147.59	0.2236	-0.0162	84.0	35 575	15 477	
27	540	-1 539c	86.01	29.18	144.12	147.04	0.2308	-0.0132	78.5	35 579	16 480	
28	545	-1 544c	83.62	36.35	141.27	145.87	0.2347	-0.012	75.5	36 581	16 481	
29	550	-1 549c	81.05	43.6	137.66	144.4	0.239	-0.011	72.4	36 583	16 483	
30	555	-1 554c	78.3	50.75	133.47	142.8	0.2434	-0.0102	69.1	37 585	16 484	
32	560	-1 560c	72.41	64.12	123.93	139.53	0.2528	-0.0092	62.6	38 590	17 486	
32	564	1 405	71.0	67.41	105.72	125.38	0.2553	-0.0231	57.4	38 592	17 486	Rm
33	565	7 435	70.75	75.66	26.96	80.32	0.2602	-0.0643	19.6	46 634	18 490	
33	566	10 450	70.4	84.09	-8.19	84.49	0.2653	-0.0828	354.4	-1 497c	19 497	
33	567	12 460	69.97	89.18	-25.67	92.8	0.2685	-0.0921	343.9	-1 506c	21 506	
33	568	13 465	69.5	91.5	-32.77	97.19	0.2702	-0.096	340.2	-1 511c	22 511	
34	570	14 470	68.72	93.74	-39.06	101.56	0.272	-0.0995	337.3	-1 519c	23 519	
34	573	15 475	67.36	96.12	-45.24	106.24	0.2743	-0.1032	334.7	-1 527c	25 527	Mm
35	578	15 480	64.23	100.99	-50.63	112.97	0.2796	-0.1073	333.3	-1 531c	26 531	
37	587	17 485	59.67	103.27	-63.42	121.19	0.285	-0.1167	328.4	-1 544c	28 544	
44	620	18 490	41.19	95.32	-96.8	135.85	0.3001	-0.1557	314.5	-1 561c	32 561	min
-1	495c	19 495	30.29	58.93	-116.79	130.82	0.2804	-0.1936	296.7	12 463	33 568	
-1	500c	20 500	34.03	42.92	-111.26	119.25	0.2595	-0.1799	291.0	13 466	33 569	
-1	510c	22 510	42.26	8.18	-98.28	98.62	0.2235	-0.1554	274.7	14 471	34 571	
-1	519c	23 520	46.59	-9.12	-91.17	91.63	0.2091	-0.1449	264.2	14 473	34 572	Bm
-1	529c	25 530	55.28	-39.96	-76.64	86.43	0.1882	-0.1275	242.4	15 477	35 575	
-1	539c	27 540	63.34	-62.09	-62.98	88.44	0.1771	-0.1147	225.4	16 480	35 579	
-1	544c	28 545	67.02	-69.55	-56.7	89.74	0.1743	-0.1096	219.1	16 481	36 581	
-1	549c	29 550	70.49	-74.83	-50.77	90.42	0.1729	-0.1053	214.1	16 483	36 583	
-1	554c	30 555	73.73	-78.04	-45.21	90.19	0.1727	-0.1015	210.0	16 484	37 585	
-1	560c	32 560	79.46	-78.96	-35.36	86.52	0.1749	-0.0954	204.1	17 486	38 590	
380	770	100.0	0.0	0.0	0.0	0.2164	-0.0785	0.0				



TUB-test chart BE36; CIE (x, y) and chroma (A*₁, B*₁)
Ostwald optimal colours for illuminant P55; diagram for illuminant P55, Y_w=100

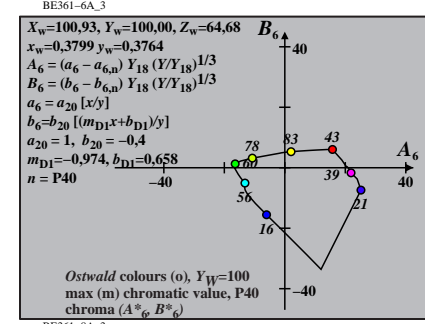
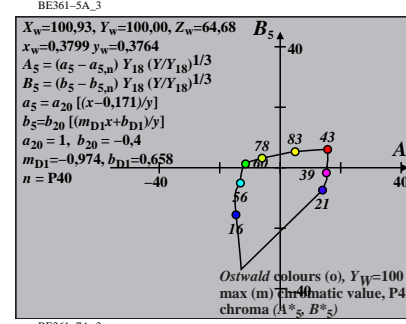
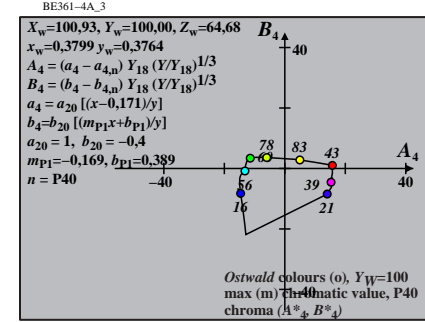
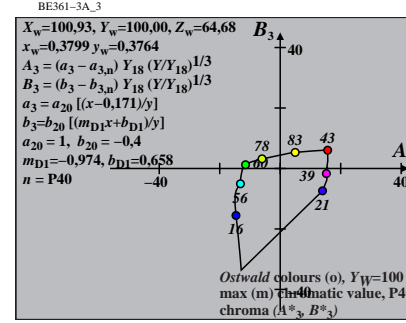
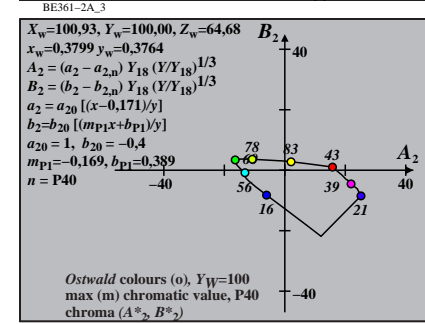
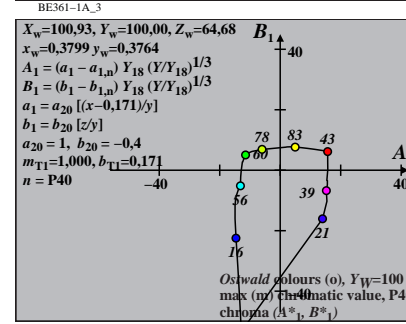
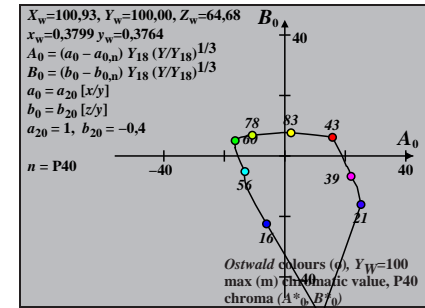
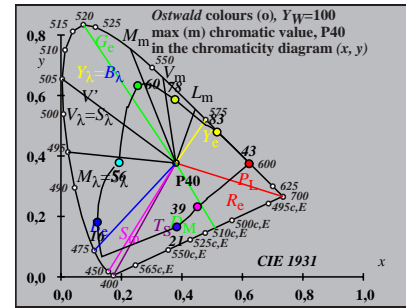
input: w/rgb/cmyk -> rgb

see similar files: http://farbe.li.tu-berlin.de/BE36/BE36.HTM
technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik

TUB registration: 20170801-BE36/BE36LONP.PDF /.PS
application for measurement of offset print output
TUB material: code=rh4ta

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	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
0	405	33	568	79.95	-84.51	-34.12	91.14	0.1748	-0.0873	201.9	17 488 38 594 Cm
7	435	33	568	80.1	-96.58	-15.98	97.9	0.1685	-0.0794	189.3	18 493 54 674
10	450	33	569	80.34	-107.65	6.16	107.83	0.1627	-0.0697	176.7	19 499 -1 499c
12	460	34	570	80.63	-113.5	25.58	116.35	0.1598	-0.0613	167.2	21 507 -1 507c
13	465	34	571	80.91	-114.78	36.41	120.41	0.1593	-0.0566	162.3	22 512 -1 512c
14	470	34	572	81.39	-114.41	47.53	123.89	0.1598	-0.0519	157.4	23 519 -1 519c
14	475	34	574	82.45	-111.22	49.34	121.68	0.1621	-0.0513	156.0	24 522 -1 522c Gm
15	480	35	578	83.87	-105.72	61.75	122.43	0.1657	-0.0464	149.7	26 531 -1 531c
17	485	37	585	86.02	-93.35	83.49	125.24	0.1731	-0.038	138.1	28 543 -1 543c
17	490	40	600	91.25	-65.8	92.44	113.47	0.1884	-0.0362	125.4	30 554 -1 554c max
19	495	-1	495c	97.98	-9.02	119.65	119.99	0.2157	-0.0283	94.3	34 571 12 464
20	500	-1	500c	97.41	-6.56	125.94	126.11	0.2168	-0.0257	92.9	34 571 13 467
21	510	-1	509c	96.66	-3.4	131.64	131.68	0.2182	-0.0233	91.4	34 572 13 469
24	520	-1	520c	93.2	10.4	142.94	143.32	0.2246	-0.0173	85.8	35 575 15 476 Ym
26	530	-1	530c	89.83	22.28	149.05	150.71	0.2305	-0.0142	81.4	35 578 16 480
27	540	-1	539c	87.86	28.7	147.39	150.16	0.2338	-0.0129	78.9	36 580 16 481
29	545	-1	545c	83.37	41.99	141.62	147.72	0.2413	-0.0108	73.4	36 584 16 484
29	550	-1	549c	83.37	41.99	141.62	147.72	0.2413	-0.0108	73.4	36 584 16 484
31	555	-1	555c	78.17	55.22	133.54	144.51	0.2496	-0.0095	67.5	37 588 17 486
32	560	-1	560c	75.32	61.53	128.87	142.81	0.2541	-0.0091	64.4	38 591 17 487
33	568	0	405	71.84	68.49	117.18	135.73	0.2595	-0.0179	59.6	38 594 17 488 Rm
33	568	7	435	71.65	75.18	25.05	79.24	0.2635	-0.0604	18.4	54 674 18 493
33	569	10	450	71.37	81.14	-6.9	81.43	0.2671	-0.0757	355.1	-1 499c 19 499
34	570	12	460	71.01	84.71	-23.18	87.82	0.2694	-0.0836	344.6	-1 507c 21 507
34	571	13	465	70.66	86.26	-29.94	91.31	0.2705	-0.0869	340.8	-1 512c 22 512
34	572	14	470	70.05	87.8	-35.89	94.85	0.2718	-0.0899	337.7	-1 519c 23 519
34	574	14	475	68.66	90.25	-38.28	98.03	0.2741	-0.0914	337.0	-1 522c 24 522 Mm
35	578	15	480	66.66	93.09	-45.56	103.65	0.2772	-0.0956	333.9	-1 531c 26 531
37	585	17	485	63.33	95.05	-56.43	110.54	0.2808	-0.1023	329.3	-1 543c 28 543
40	600	17	490	52.92	100.17	-74.36	124.76	0.2939	-0.1177	323.4	-1 554c 30 554 min
-1	495c	19	495	27.1	48.32	-121.83	131.07	0.277	-0.1913	291.6	12 464 34 571
-1	500c	20	500	30.79	32.53	-116.48	120.94	0.2552	-0.1771	285.6	13 467 34 571
-1	509c	21	510	34.77	15.53	-110.39	111.48	0.2353	-0.1638	278.0	13 469 34 572
-1	520c	24	520	47.74	-35.63	-89.33	96.18	0.1912	-0.1313	248.2	15 476 35 575 Bm
-1	530c	26	530	56.15	-61.81	-75.22	97.36	0.176	-0.1162	230.5	16 480 35 578
-1	539c	27	540	60.09	-71.38	-68.53	98.96	0.1719	-0.1102	223.8	16 481 36 580
-1	545c	29	545	67.38	-83.62	-56.09	100.69	0.1686	-0.1007	213.8	16 484 36 584
-1	549c	29	550	67.38	-83.62	-56.09	100.69	0.1686	-0.1007	213.8	16 484 36 584
-1	555c	31	555	73.87	-87.57	-44.97	98.45	0.17	-0.0934	207.1	17 486 37 588
-1	560c	32	560	76.81	-86.88	-39.92	95.61	0.172	-0.0905	204.6	17 487 38 591
380	770	100.0	0.0	0.0	0.0	0.0	0.2197	-0.0724	0.0		



TUB-test chart BE36; CIE (x, y) and chroma (A^*_1, B^*_1)
Ostwald optimal colours for illuminant P50; diagram for illuminant P50, $Y_w=100$

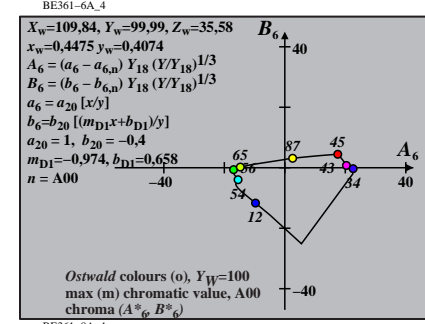
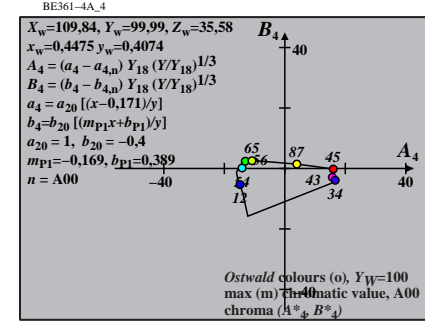
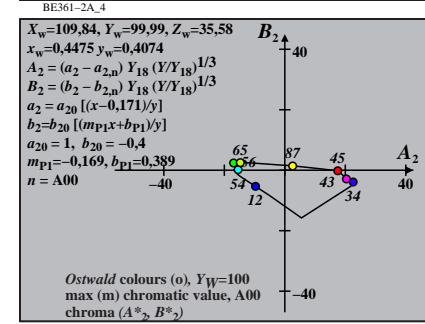
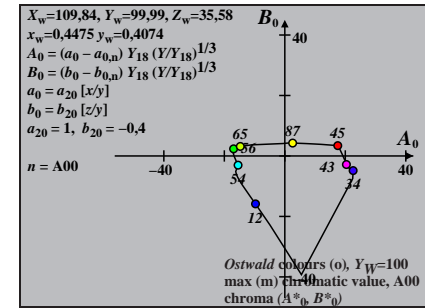
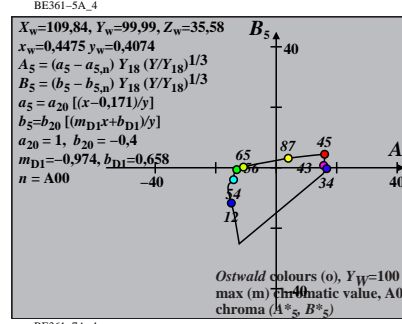
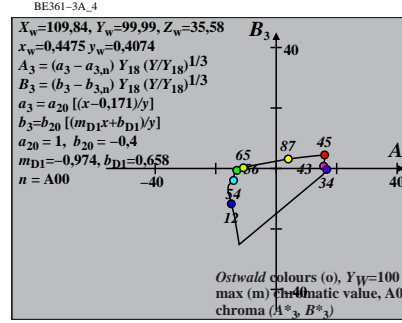
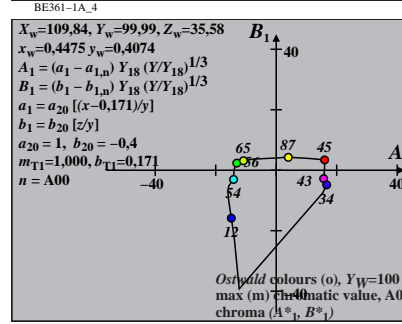
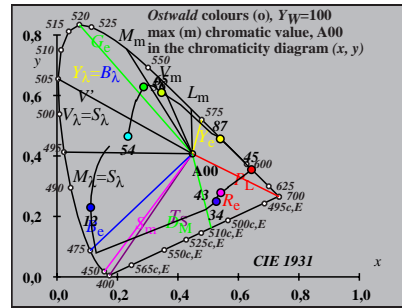
input: w/rgb/cmyk -> rgb

TUB registration: 20170801-BE36/BE36LONP.PDF /.PS
application for measurement of offset print output

TUB material: code=rh4ta

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	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code	
1	405 34 574	78.85	-93.32	-35.89	99.98	0.1744	-0.0723	201.0	18 494	39 599	Cm	
6	435 34 574	78.96	-96.73	-26.37	100.26	0.1726	-0.0689	195.2	19 496	42 611		
9	450 34 574	79.11	-101.61	-9.74	102.07	0.17	-0.0628	185.4	20 501	-1 501c		
12	460 35 575	79.23	-106.37	15.06	107.44	0.1674	-0.0539	171.9	21 508	-1 508c		
13	465 35 575	79.39	-106.94	25.06	109.84	0.1672	-0.0503	166.8	22 512	-1 512c		
13	470 35 576	79.77	-105.73	25.71	108.81	0.1681	-0.0501	166.3	22 513	-1 513c		
14	475 35 577	80.24	-104.74	36.37	110.87	0.1689	-0.0463	160.8	23 519	-1 519c	Gm	
16	480 35 579	80.85	-102.02	56.29	116.52	0.1708	-0.0393	151.1	26 532	-1 532c		
17	485 36 582	82.14	-95.87	67.16	117.06	0.1748	-0.0357	144.9	28 540	-1 540c		
18	490 37 588	84.48	-84.64	79.28	115.97	0.1818	-0.0321	136.8	29 548	-1 548c	max	
19	495 40 601	89.15	-59.87	94.98	112.27	0.1962	-0.0282	122.2	31 559	-1 559c		
20	500	-1 500c	98.3	-0.99	118.21	0.2256	-0.0237	90.4	35 576	13 469		
21	510	-1 509c	97.76	1.33	124.56	0.2266	-0.0216	89.3	35 576	14 472		
24	520	-1 520c	95.08	12.06	138.4	0.2317	-0.0164	85.0	35 579	16 480	Ym	
26	530	-1 530c	92.36	21.85	143.79	0.2366	-0.0136	81.3	36 582	16 484		
28	540	-1 540c	88.89	33.07	150.37	0.2426	-0.0113	77.5	37 585	17 487		
28	545	-1 544c	88.89	33.07	150.37	0.2426	-0.0113	77.5	37 585	17 487		
29	550	-1 549c	86.88	39.02	147.63	0.2459	-0.0105	75.1	37 586	17 489		
31	555	-1 555c	82.29	51.17	140.56	0.2533	-0.0093	69.9	38 590	18 491		
32	560	-1 560c	79.72	57.15	136.37	0.2573	-0.0089	67.2	38 593	18 492		
34	574 1	405 73.11	69.93	121.37	140.08	0.2672	-0.0157	60.0	39 599	18 494	Rm	
34	574 6	435 72.99	71.86	49.23	87.11	0.2684	-0.0403	34.4	42 611	19 496		
34	574 9	450 72.81	74.57	12.9	75.68	0.2701	-0.0543	9.8	-1 501c	20 501		
35	575 12	460 72.68	77.06	-14.42	78.4	0.2716	-0.0649	349.3	-1 508c	21 508		
35	575 13	465 72.49	77.79	-21.68	80.76	0.2721	-0.0677	344.4	-1 512c	22 512		
35	576 13	470 72.05	78.44	-22.44	81.59	0.2728	-0.0681	344.0	-1 513c	22 513		
35	577 14	475 71.48	79.51	-29.1	84.67	0.2737	-0.0708	339.8	-1 519c	23 519	Mm	
35	579 16	480 70.74	80.2	-38.45	88.95	0.2745	-0.0746	334.3	-1 532c	26 532		
36	582 17	485 69.07	81.43	-44.04	92.58	0.2762	-0.0771	331.5	-1 540c	28 540		
37	588 18	490 65.76	83.25	-51.87	98.09	0.2794	-0.0811	328.0	-1 548c	29 548	min	
40	601 19	495 57.58	83.12	-67.63	107.16	0.2853	-0.091	320.8	-1 559c	31 559		
-1	500c	20 500	24.74	7.45	-125.58	125.81	0.2356	-0.1655	273.3	13 469	35 576	
-1	509c	21 510	28.63	-9.11	-119.95	120.29	0.2153	-0.1519	265.6	14 472	35 576	
-1	520c	24 520	41.52	-59.07	-99.57	115.77	0.1721	-0.1189	239.3	16 480	35 579	Bm
-1	530c	26 530	50.09	-83.73	-85.38	119.59	0.1595	-0.1038	225.5	16 484	36 582	
-1	540c	28 540	58.11	-98.44	-71.87	121.88	0.1563	-0.0927	216.1	17 487	37 585	
-1	544c	28 545	58.11	-98.44	-71.87	121.88	0.1563	-0.0927	216.1	17 487	37 585	
-1	549c	29 550	61.87	-102.31	-65.48	121.47	0.1571	-0.0883	212.6	17 489	37 586	
-1	555c	31 555	68.87	-104.05	-53.51	117.01	0.1617	-0.081	207.2	18 491	38 590	
-1	560c	32 560	72.11	-102.33	-47.96	113.01	0.1651	-0.078	205.1	18 492	38 593	
380	770	100.0	0.0	0.0	0.0	0.226	-0.0593	0.0				



TUB-test chart BE36; CIE (x, y) and chroma (A^*_1, B^*_1)
Ostwald optimal colours for illuminant P45; diagram for illuminant P45, $Y_w=100$

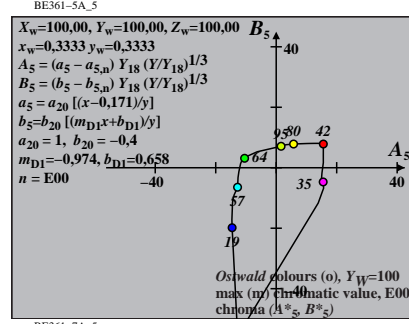
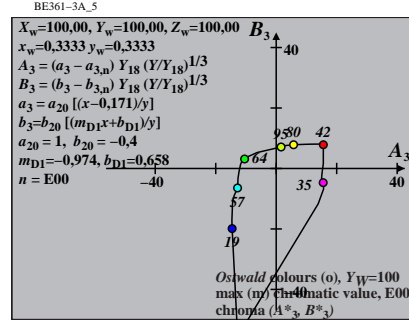
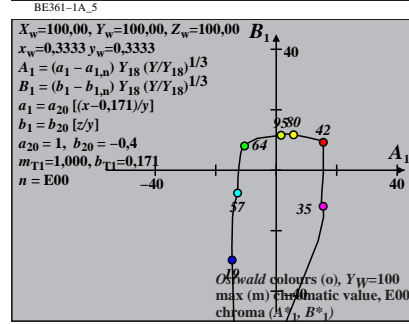
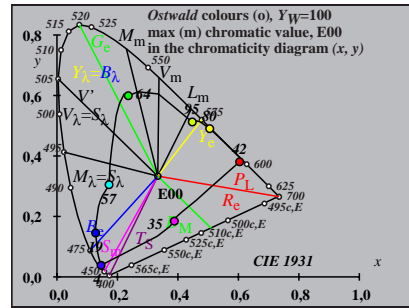
input: w/rgb/cmyk -> rgb

TUB registration: 20170801-BE36/BE36LONP.PDF /.PS
application for measurement of offset print output

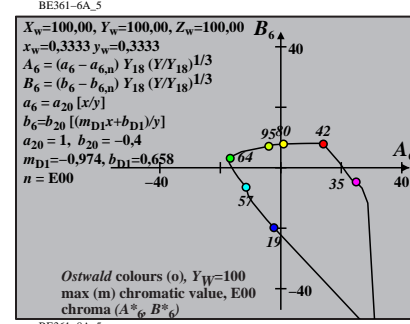
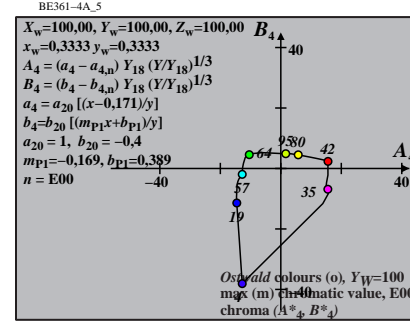
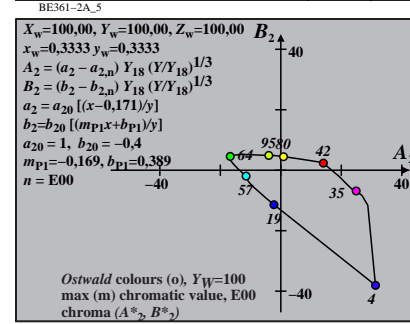
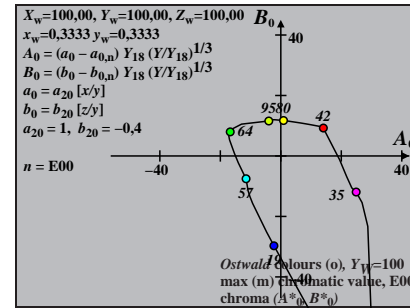
TUB material: code=rh4ta

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	L*	A*	B*	C* _{AB}	a'	b'	h _{a'b'}	i _d , λ _d	i _c , λ _c	Code		
1	405	32	564	80.42	-71.93	-32.6	78.98	0.1811	-0.1001	204.3	16 484 38 592	Cm	
6	435	33	565	80.69	-86.68	-17.31	88.4	0.1735	-0.0924	191.2	17 488 45 627		
10	450	33	566	80.99	-110.31	13.7	111.15	0.1612	-0.0768	172.9	19 498 -1 498c		
12	460	33	568	81.45	-119.36	34.48	124.25	0.1568	-0.0665	163.8	21 507 -1 507c		
13	465	33	569	81.92	-121.61	45.97	130.01	0.1559	-0.0609	159.2	22 514 -1 514c		
14	470	34	571	82.66	-120.76	57.74	133.86	0.1568	-0.0553	154.4	24 522 -1 522c		
14	475	35	575	84.24	-115.44	60.46	130.32	0.1605	-0.0544	152.3	25 525 -1 525c	Gm	
16	480	36	581	86.12	-105.73	83.03	134.43	0.1664	-0.0442	141.8	27 538 -1 538c		
17	485	39	595	90.19	-81.63	98.55	127.97	0.18	-0.0386	129.6	29 549 -1 549c		
18	490	-1 490c	97.85	-20.19	119.57	121.26	0.21	-0.0327	99.5	33 568 11 459	max		
19	495	-1 495c	97.3	-17.91	125.92	127.19	0.211	-0.0297	98.0	33 568 12 461			
19	500	-1 499c	97.3	-17.91	125.92	127.19	0.211	-0.0297	98.0	33 568 12 461			
22	510	-1 510c	94.63	-6.64	140.85	141.01	0.216	-0.0218	92.7	34 571 13 469			
24	520	-1 520c	91.75	4.59	146.03	146.1	0.2212	-0.0178	88.1	34 574 14 473	Ym		
26	530	-1 530c	88.02	17.68	145.85	146.92	0.2277	-0.0145	83.0	35 577 15 477			
28	540	-1 540c	83.56	31.64	141.2	144.7	0.2352	-0.0119	77.3	36 581 15 479			
29	545	-1 545c	81.07	38.69	137.72	143.05	0.2393	-0.0109	74.3	36 583 16 480			
29	550	-1 549c	81.07	38.69	137.72	143.05	0.2393	-0.0109	74.3	36 583 16 480			
30	555	-1 554c	78.42	45.65	133.68	141.26	0.2436	-0.0102	71.1	37 585 16 482			
32	560	-1 560c	72.66	58.88	124.34	137.58	0.2528	-0.0092	64.6	38 590 16 483			
32	564	1	405	71.27	62.52	98.78	116.91	0.2555	-0.0287	57.6	38 592 16 484	Rm	
33	565	6	435	70.93	71.83	28.95	77.45	0.2611	-0.0675	21.9	45 627 17 488		
33	566	10	450	70.56	84.55	-14.4	85.76	0.2687	-0.0918	350.3	-1 498c 19 498		
33	568	12	460	69.98	90.17	-29.54	94.89	0.2724	-0.1004	341.8	-1 507c 21 507		
33	569	13	465	69.37	92.89	-35.98	99.61	0.2744	-0.1042	338.8	-1 514c 22 514		
34	571	14	470	68.37	95.44	-41.93	104.25	0.2766	-0.1079	336.2	-1 522c 24 522		
35	575	14	475	66.11	99.55	-45.82	109.59	0.2807	-0.1108	335.2	-1 525c 25 525	Mm	
36	581	16	480	63.17	102.89	-56.56	117.41	0.2851	-0.1184	331.2	-1 538c 27 538		
39	595	17	485	55.38	108.0	-71.77	129.67	0.296	-0.1326	326.3	-1 549c 29 549		
-1	490c	18	490	28.02	85.37	-120.26	147.48	0.3177	-0.2165	305.3	11 459 33 568	min	
-1	495c	19	495	31.41	71.03	-115.43	135.53	0.2953	-0.2021	301.6	12 461 33 568		
-1	499c	19	500	31.41	71.03	-115.43	135.53	0.2953	-0.2021	301.6	12 461 33 568		
-1	510c	22	510	43.16	21.12	-96.96	99.24	0.2372	-0.1634	282.2	13 469 34 571		
-1	520c	24	520	51.68	-12.26	-82.78	83.68	0.2098	-0.1431	261.5	14 473 34 574	Bm	
-1	530c	26	530	59.79	-39.13	-69.07	79.38	0.1928	-0.128	240.4	15 477 35 577		
-1	540c	28	540	67.12	-57.58	-56.56	80.72	0.1838	-0.1168	224.4	15 479 36 581		
-1	545c	29	545	70.46	-63.67	-50.83	81.48	0.1816	-0.1123	218.6	16 480 36 583		
-1	549c	29	550	70.46	-63.67	-50.83	81.48	0.1816	-0.1123	218.6	16 480 36 583		
-1	554c	30	555	73.6	-67.81	-45.45	81.64	0.1806	-0.1084	213.8	16 482 37 585		
-1	560c	32	560	79.25	-70.77	-35.73	79.28	0.1813	-0.1019	206.7	16 483 38 590		
380	770	100.0	0.0	0.0	0.0	0.2191	-0.0837	0.0					



BE361-1A_5, BE361-2A_5, BE361-3A_5, BE361-4A_5, BE361-5A_5, BE361-7A_5, BE361-8A_5



BE361-1A_5, BE361-2A_5, BE361-3A_5, BE361-4A_5, BE361-5A_5, BE361-7A_5, BE361-8A_5

TUB-test chart BE36; CIE (x, y) and chroma (A*₁, B*₁)
Ostwald optimal colours for illuminant P40; diagram for illuminant P40, Y_w=100

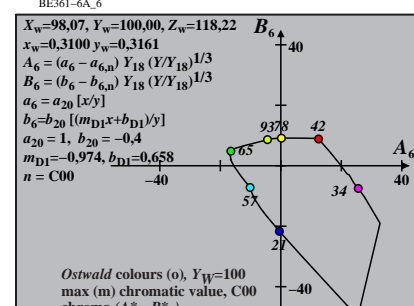
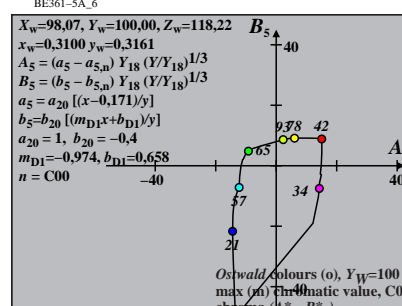
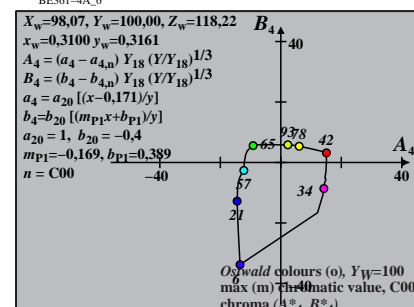
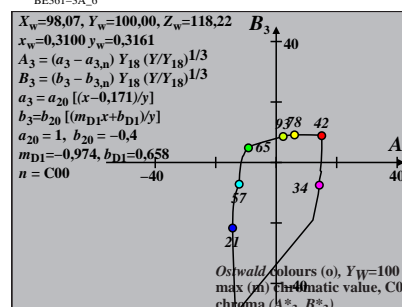
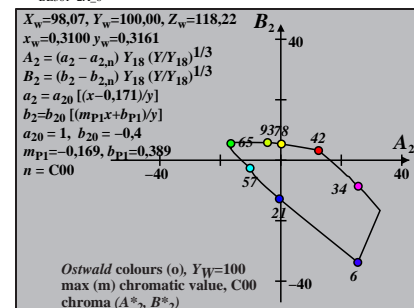
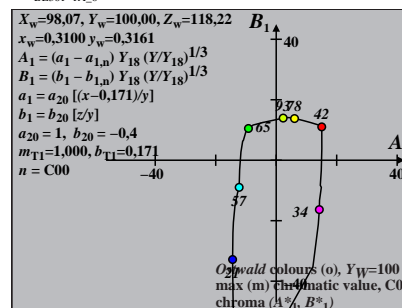
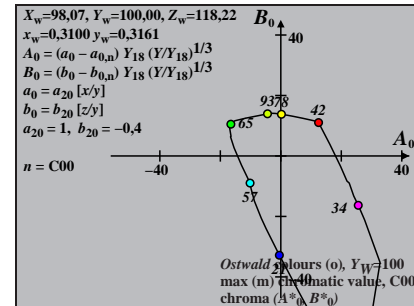
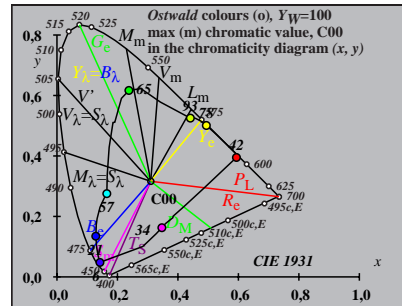
input: w/rgb/cmyk -> rgb

see similar files: http://farbe.li.tu-berlin.de/BE36/BE36.HTM
technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik

TUB registration: 20170801-BE36/BE36LONP.PDF /.PS
application for measurement of offset print output
TUB material: code=rh4ta

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	L*	A*	B*	C* _{AB}	a'	b'	h _{a'b'}	i _d , λ _d	i _c , λ _c	Code	
1	405	32 562	80.56	-63.21	-32.83	71.23	0.1846	-0.106	207.4	16 482	37 589	Cm
6	435	32 563	80.94	-78.71	-18.89	80.95	0.1766	-0.0985	193.5	17 486	42 612	
10	450	32 564	81.34	-107.68	12.88	108.44	0.1618	-0.0817	173.1	19 496	-1 496c	
11	460	33 566	82.13	-112.84	24.14	115.39	0.1595	-0.0759	167.9	20 501	-1 501c	
13	465	33 568	82.49	-121.77	46.54	130.36	0.1552	-0.0642	159.0	22 513	-1 513c	
14	470	34 570	83.42	-121.35	59.14	135.0	0.156	-0.058	154.0	24 522	-1 522c	
15	475	35 575	84.96	-116.2	72.42	136.92	0.1595	-0.0517	148.0	26 530	-1 530c	Gm
16	480	36 582	87.53	-103.12	86.81	134.79	0.1673	-0.0454	139.9	28 540	-1 540c	
16	485	40 602	92.82	-72.73	95.9	120.36	0.1839	-0.0432	127.1	30 551	-1 551c	
18	490	-1 490c	97.36	-24.59	121.29	123.76	0.2067	-0.0335	101.4	33 566	11 459	max
19	495	-1 495c	96.73	-21.95	127.88	129.75	0.2078	-0.0302	99.7	33 567	12 462	
19	500	-1 499c	96.73	-21.95	127.88	129.75	0.2078	-0.0302	99.7	33 567	12 462	
21	510	-1 509c	95.02	-14.69	138.59	139.36	0.2109	-0.0244	96.0	33 568	13 466	
24	520	-1 520c	91.05	1.02	144.8	144.81	0.2181	-0.018	89.5	34 572	14 472	Ym
26	530	-1 530c	87.33	13.98	144.52	145.2	0.2245	-0.0147	84.4	35 575	15 475	
28	540	-1 540c	82.69	28.3	139.63	142.47	0.2321	-0.0121	78.5	35 579	15 478	
28	545	-1 544c	82.69	28.3	139.63	142.47	0.2321	-0.0121	78.5	35 579	15 478	
29	550	-1 549c	80.02	35.71	135.89	140.5	0.2364	-0.0111	75.2	36 581	15 479	
31	555	-1 555c	74.09	50.35	126.59	136.23	0.2459	-0.0097	68.3	37 586	16 481	
31	560	-1 559c	74.09	50.35	126.59	136.23	0.2459	-0.0097	68.3	37 586	16 481	
32	562	1 405	71.09	57.31	106.8	121.2	0.2509	-0.0254	61.7	37 589	16 482	Rm
32	563	6 435	70.63	68.01	33.32	75.74	0.2573	-0.0688	26.1	42 612	17 486	
32	564	10 450	70.11	84.57	-13.89	85.71	0.2672	-0.0968	350.6	-1 496c	19 496	
33	566	11 460	69.09	89.82	-23.71	92.89	0.271	-0.1028	345.2	-1 501c	20 501	
33	568	13 465	68.6	95.22	-37.12	102.2	0.2745	-0.1111	338.6	-1 513c	22 513	
34	570	14 470	67.31	98.82	-43.8	108.09	0.2776	-0.1155	336.0	-1 522c	24 522	
35	575	15 475	65.02	103.1	-51.14	115.09	0.2819	-0.121	333.6	-1 530c	26 530	Mm
36	582	16 480	60.71	108.36	-61.1	124.4	0.289	-0.1294	330.5	-1 540c	28 540	
40	602	16 485	48.81	118.01	-81.6	143.48	0.3096	-0.1532	325.3	-1 551c	30 551	
-1	490c	18 490	31.05	89.91	-115.42	146.31	0.3142	-0.2146	307.9	11 459	33 566	min
-1	495c	19 495	34.46	75.47	-110.51	133.82	0.2932	-0.2011	304.3	12 462	33 567	
-1	499c	19 500	34.46	75.47	-110.51	133.82	0.2932	-0.2011	304.3	12 462	33 567	
-1	509c	21 510	41.75	44.31	-99.2	108.65	0.2564	-0.1768	294.0	13 466	33 568	
-1	520c	24 520	53.38	-2.45	-79.92	79.96	0.2158	-0.1477	268.2	14 472	34 572	Bm
-1	530c	26 530	61.06	-28.27	-66.91	72.64	0.1991	-0.1331	247.0	15 475	35 575	
-1	540c	28 540	68.34	-47.27	-54.48	72.13	0.1893	-0.1217	229.0	15 478	35 579	
-1	544c	28 545	68.34	-47.27	-54.48	72.13	0.1893	-0.1217	229.0	15 478	35 579	
-1	549c	29 550	71.74	-53.89	-48.64	72.59	0.1866	-0.117	222.0	15 479	36 581	
-1	555c	31 555	77.97	-61.37	-37.94	72.15	0.1846	-0.1093	211.7	16 481	37 586	
-1	559c	31 560	77.97	-61.37	-37.94	72.15	0.1846	-0.1093	211.7	16 481	37 586	
380	770	100.0	0.0	0.0	0.0	0.2176	-0.0885	0.0				



TUB-test chart BE36; CIE (x, y) and chroma (A*₁, B*₁)
Ostwald optimal colours for illuminant P35; diagram for illuminant P35, Y_w=100

input: w/rgb/cmyk -> rgb

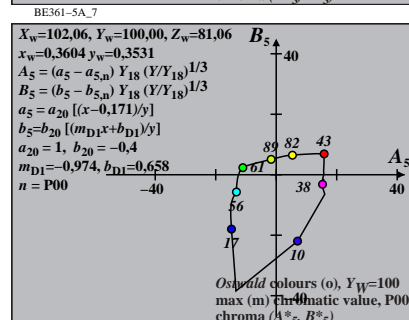
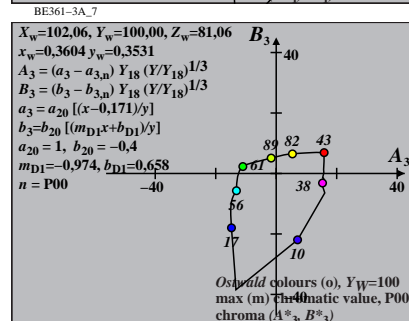
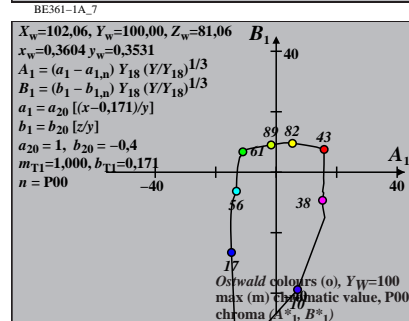
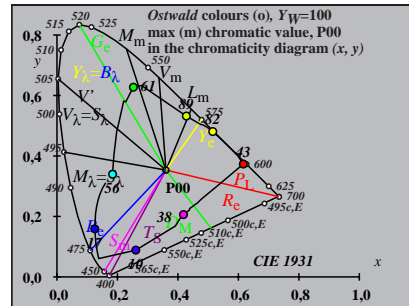
TUB registration: 20170801-BE36/BE36LONP.PDF /.PS
application for measurement of offset print output

TUB material: code=rh4ta

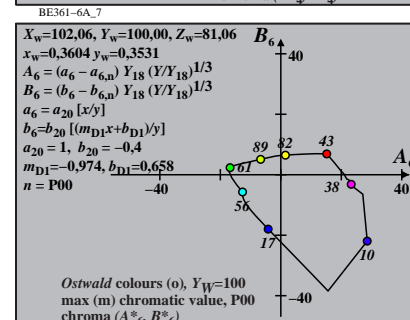
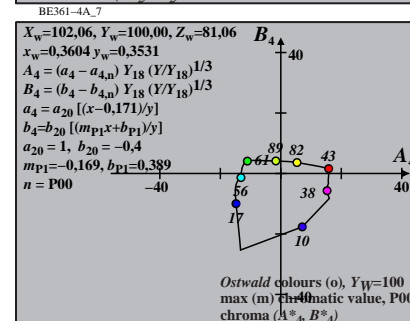
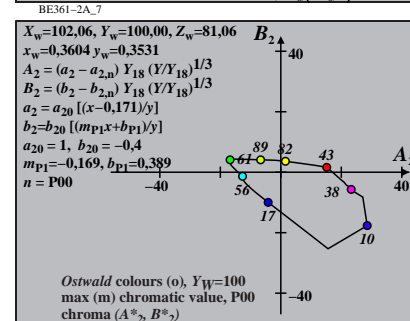
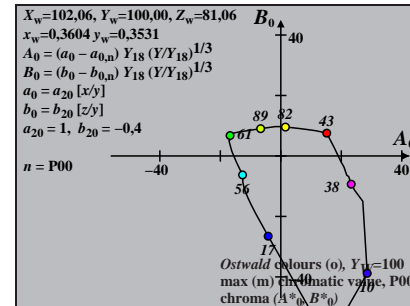
Ostwald optimal colours (o) of maximum (m) C_{AB} for P00, $Y_w=100, Y_m=520-770$

i_1, λ_1	i_2, λ_2	L^*	A^*	B^*	C^*_{AB}	a'	b'	$h_a'b'$	i_d, λ_d	i_c, λ_c	Code
1	405	33	567	80.08	-78.89	-33.31	85.63	0.1785	-0.0938	202.8	17 486 38 594 Cm
7	435	33	567	80.26	-94.95	-13.06	95.84	0.1701	-0.0842	187.8	18 491 -1 491c
10	450	33	568	80.54	-108.99	10.63	109.5	0.1628	-0.0731	174.4	19 499 -1 499c
12	460	34	570	80.91	-116.28	30.81	120.29	0.1591	-0.0636	165.1	21 507 -1 507c
13	465	34	571	81.27	-117.71	41.96	124.97	0.1586	-0.0585	160.3	22 513 -1 513c
13	470	34	572	82.09	-115.15	43.37	123.05	0.1605	-0.058	159.3	23 515 -1 515c
15	475	35	575	82.9	-113.69	65.12	131.02	0.1617	-0.0482	150.1	25 529 -1 529c Gm
16	480	36	580	84.67	-105.54	77.46	130.92	0.1669	-0.0432	143.7	27 537 -1 537c
17	485	37	589	87.83	-88.41	91.44	127.19	0.177	-0.0381	134.0	29 547 -1 547c
18	490	45	625	95.55	-35.3	112.58	117.98	0.2043	-0.0323	107.4	32 564 -1 564c max
18	495	-1	494c	98.18	-14.88	117.1	118.05	0.2139	-0.0316	97.2	34 570 12 460
20	500	-1	500c	97.07	-10.22	129.61	130.01	0.2159	-0.0261	94.5	34 571 13 465
22	510	-1	510c	95.29	-2.73	139.39	139.42	0.2193	-0.0213	91.1	34 573 14 470
24	520	-1	520c	92.66	7.59	145.17	145.36	0.2241	-0.0175	87.0	35 575 14 474 Ym
25	530	-1	529c	91.02	13.53	148.64	149.25	0.227	-0.0158	84.7	35 577 15 476
28	540	-1	540c	85.0	33.06	143.68	147.44	0.2373	-0.0117	77.0	36 582 16 481
28	545	-1	544c	85.0	33.06	143.68	147.44	0.2373	-0.0117	77.0	36 582 16 481
30	550	-1	550c	80.12	46.56	136.57	144.29	0.2453	-0.0101	71.1	37 586 16 483
30	555	-1	554c	80.12	46.56	136.57	144.29	0.2453	-0.0101	71.1	37 586 16 483
32	560	-1	560c	74.58	59.47	127.61	140.79	0.2542	-0.0091	65.0	38 591 17 485
33	567	1	405	71.68	65.73	101.35	120.8	0.2589	-0.0256	57.0	38 594 17 486 Rm
33	567	7	435	71.46	74.84	19.51	77.35	0.2644	-0.0679	14.6	-1 491c 18 491
33	568	10	450	71.12	82.43	-11.36	83.21	0.269	-0.084	352.1	-1 499c 19 499
34	570	12	460	70.66	86.89	-26.77	90.93	0.2719	-0.092	342.8	-1 507c 21 507
34	571	13	465	70.21	88.8	-33.19	94.8	0.2733	-0.0955	339.5	-1 513c 22 513
34	572	13	470	69.14	90.72	-35.03	97.25	0.2751	-0.0967	338.8	-1 515c 23 515
35	575	15	475	68.04	93.18	-44.83	103.4	0.2773	-0.1022	334.3	-1 529c 25 529 Mm
36	580	16	480	65.47	96.3	-51.84	109.37	0.2811	-0.1069	331.7	-1 537c 27 537
37	589	17	485	60.15	100.27	-62.94	118.39	0.288	-0.1155	327.8	-1 547c 29 547
45	625	18	490	39.7	91.84	-99.65	135.52	0.305	-0.1591	312.6	-1 564c 32 564 min
-1	494c	18	495	25.68	73.84	-123.82	144.16	0.3113	-0.2127	300.8	12 460 34 570
-1	500c	20	500	32.66	44.11	-113.75	122.01	0.267	-0.184	291.1	13 465 34 571
-1	510c	22	510	40.72	10.05	-101.0	101.49	0.2296	-0.1587	275.6	14 470 34 573
-1	520c	24	520	49.28	-23.24	-86.83	89.88	0.2023	-0.1383	255.0	14 474 35 575 Bm
-1	529c	25	530	53.46	-37.59	-79.8	88.21	0.1928	-0.1301	244.7	15 476 35 577
-1	540c	28	540	64.96	-67.78	-60.26	90.69	0.1777	-0.1118	221.6	16 481 36 582
-1	544c	28	545	64.96	-67.78	-60.26	90.69	0.1777	-0.1118	221.6	16 481 36 582
-1	550c	30	550	71.63	-77.26	-48.82	91.4	0.1754	-0.1033	212.2	16 483 37 586
-1	554c	30	555	71.63	-77.26	-48.82	91.4	0.1754	-0.1033	212.2	16 483 37 586
-1	560c	32	560	77.52	-79.3	-38.71	88.25	0.1771	-0.0968	206.0	17 485 38 591
380	770	100.0	0.0	0.0	0.0	0.2205	-0.078	0.0			

see similar files: http://farbe.li.tu-berlin.de/BE36/BE36.HTM
 technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik



BE361-1A_7, BE361-3A_7, BE361-5A_7, BE361-7A_7



BE361-2A_7, BE361-4A_7, BE361-6A_7, BE361-8A_7

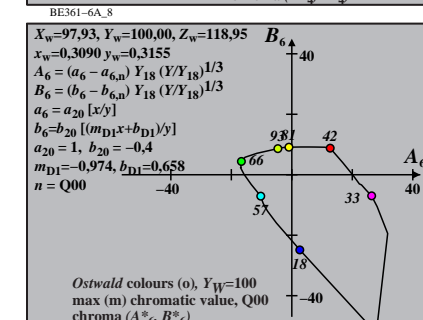
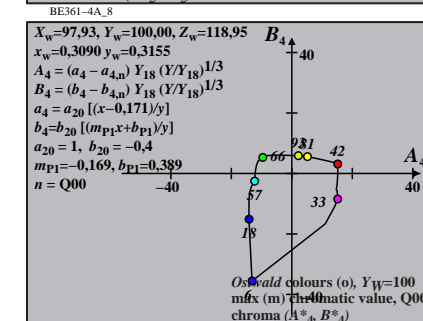
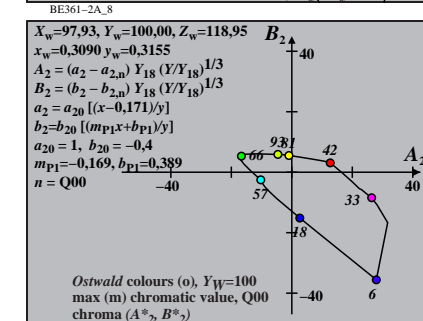
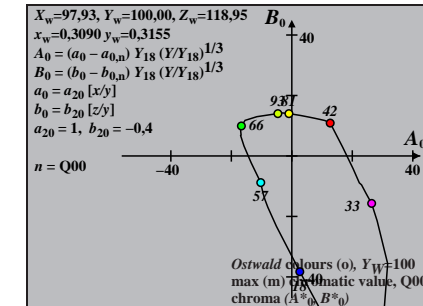
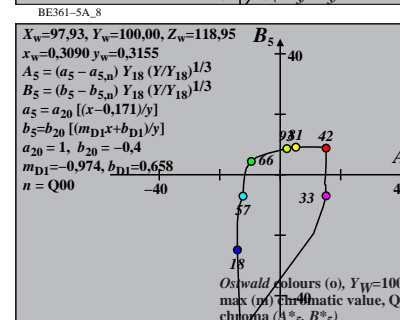
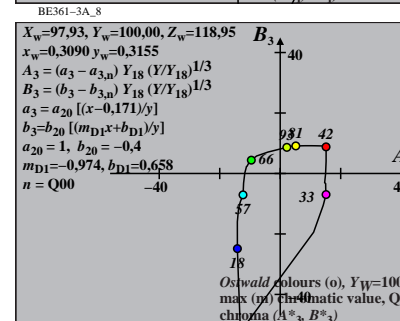
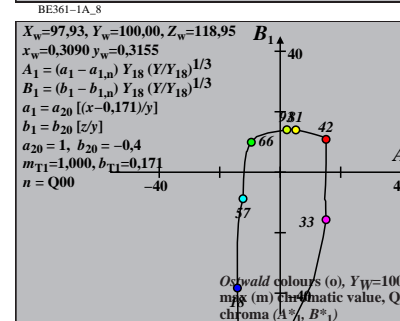
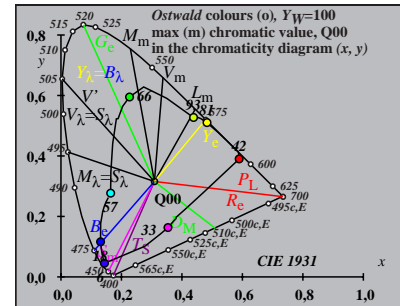
TUB-test chart BE36; CIE (x, y) and chroma (A^*_1, B^*_1)
 Ostwald optimal colours for illuminant P30; diagram for illuminant P30, $Y_w=100$

input: w/rgb/cmyk -> rgb

TUB registration: 20170801-BE36/BE36LONP.PDF /.PS
 application for measurement of offset print output
 TUB material: code=rh4ta

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	L*	A*	B*	C* _{AB}	a'	b'	h _{a'b'}	i _d , λ _d	i _c , λ _c	Code
1	405	32 562	80.68	-64.24	-32.07	71.8	0.184	-0.1058	206.5	16 482	38 590 Cm
7	435	32 562	80.95	-89.53	-9.44	90.03	0.1709	-0.0937	186.0	17 488	-1 488c
10	450	32 564	81.4	-111.42	16.02	112.57	0.1598	-0.0802	171.8	19 497	-1 497c
11	460	33 566	82.16	-116.43	27.13	119.54	0.1576	-0.0745	166.8	20 502	-1 502c
12	465	33 568	82.76	-120.38	38.67	126.44	0.156	-0.0685	162.1	21 508	-1 508c
14	470	34 570	83.43	-124.41	61.21	138.66	0.1544	-0.057	153.8	24 522	-1 522c
15	475	35 575	84.95	-119.09	73.9	140.16	0.158	-0.051	148.1	26 530	-1 530c Gm
16	480	36 582	87.54	-105.63	87.7	137.29	0.166	-0.0451	140.2	27 539	-1 539c
17	485	40 602	92.55	-72.3	104.85	127.36	0.1839	-0.039	124.5	30 552	-1 552c
17	490	-1 489c	98.01	-27.86	114.23	117.58	0.2052	-0.0371	103.7	33 565	11 455 max
18	495	-1 494c	97.52	-25.98	121.21	123.96	0.206	-0.0337	102.1	33 565	11 458
20	500	-1 500c	96.13	-20.14	132.94	134.46	0.2085	-0.0276	98.6	33 567	12 463
21	510	-1 509c	95.16	-16.01	137.78	138.71	0.2103	-0.0249	96.6	33 568	13 465
23	520	-1 519c	92.51	-5.25	144.35	144.45	0.2151	-0.0202	92.0	34 571	14 470 Ym
26	530	-1 530c	86.82	15.1	143.67	144.46	0.2249	-0.0148	83.9	35 576	15 475
27	540	-1 539c	84.53	22.41	141.62	143.39	0.2288	-0.0133	81.0	35 578	15 477
28	545	-1 544c	82.07	29.8	138.65	141.81	0.2329	-0.0121	77.8	36 580	15 478
29	550	-1 549c	79.44	37.14	134.94	139.96	0.2372	-0.0111	74.6	36 582	15 479
30	555	-1 554c	76.66	44.34	130.68	138.0	0.2417	-0.0103	71.2	36 584	16 480
31	560	-1 559c	73.72	51.3	125.98	136.02	0.2464	-0.0097	67.8	37 587	16 481
32	562	1 405	70.95	58.27	97.03	113.19	0.2514	-0.0312	59.0	38 590	16 482 Rm
32	562	7 435	70.61	74.17	13.74	75.43	0.2608	-0.0805	10.4	-1 488c	17 488
32	564	10 450	70.04	86.49	-16.69	88.09	0.2683	-0.0987	349.0	-1 497c	19 497
33	566	11 460	69.05	91.55	-25.83	95.12	0.2719	-0.1043	344.2	-1 502c	20 502
33	568	12 465	68.24	95.65	-33.61	101.38	0.2749	-0.1092	340.6	-1 508c	21 508
34	570	14 470	67.3	100.2	-44.53	109.65	0.2783	-0.1162	336.0	-1 522c	24 522
35	575	15 475	65.04	104.47	-51.53	116.49	0.2826	-0.1214	333.7	-1 530c	26 530 Mm
36	582	16 480	60.69	109.95	-61.33	125.9	0.2899	-0.1299	330.8	-1 539c	27 539
40	602	17 485	49.56	115.52	-82.21	141.78	0.3065	-0.1533	324.5	-1 552c	30 552
-1	489c	17 490	26.94	108.88	-121.21	162.93	0.3457	-0.2341	311.9	11 455	33 565 min
-1	494c	18 495	30.14	95.66	-116.93	151.08	0.3223	-0.2192	309.2	11 458	33 565
-1	500c	20 500	37.28	65.24	-106.29	124.71	0.2794	-0.1914	301.5	12 463	33 567
-1	509c	21 510	41.25	48.29	-99.99	111.04	0.2601	-0.1786	295.7	13 465	33 568
-1	519c	23 520	49.68	13.52	-86.1	87.15	0.2279	-0.1562	278.9	14 470	34 571 Bm
-1	530c	26 530	61.97	-29.73	-65.35	71.79	0.1983	-0.1318	245.5	15 475	35 576
-1	539c	27 540	65.68	-40.14	-59.01	71.37	0.1927	-0.1259	235.7	15 477	35 578
-1	544c	28 545	69.17	-48.47	-53.04	71.86	0.1888	-0.1208	227.5	15 478	36 580
-1	549c	29 550	72.43	-54.78	-47.45	72.47	0.1863	-0.1163	220.8	15 479	36 582
-1	554c	30 555	75.48	-59.17	-42.22	72.69	0.1849	-0.1125	215.5	16 480	36 584
-1	559c	31 560	78.3	-61.78	-37.36	72.2	0.1844	-0.1091	211.1	16 481	37 587
380	770	100.0	0.0	0.0	0.0	0.2175	-0.0887	0.0			



TUB-test chart BE36; CIE (x, y) and chroma (A*₁, B*₁)
Ostwald optimal colours for illuminant P25; diagram for illuminant P25, Y_w=100

input: w/rgb/cmyk -> rgb

1-000730-F0 C M Y O L V

TUB registration: 20170801-BE36/BE36LONP.PDF /.PS
application for measurement of offset print output

TUB material: code=rh4ta