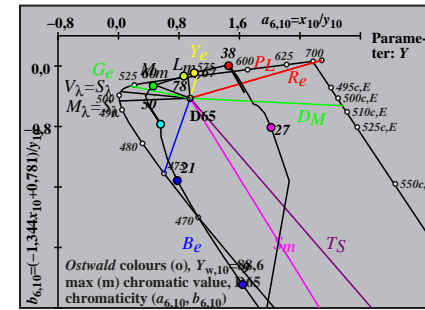
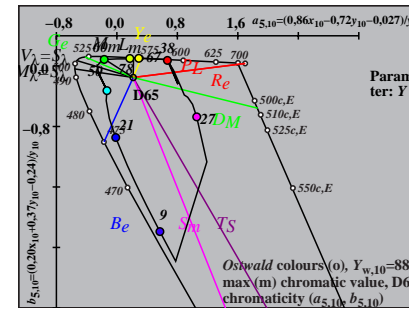
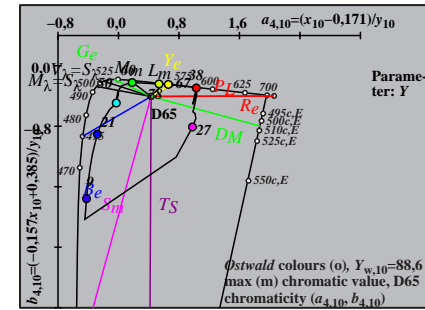
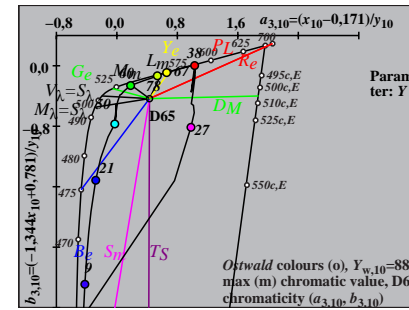
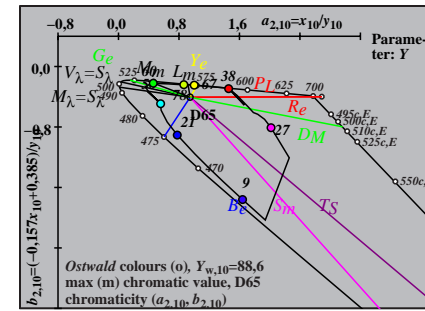
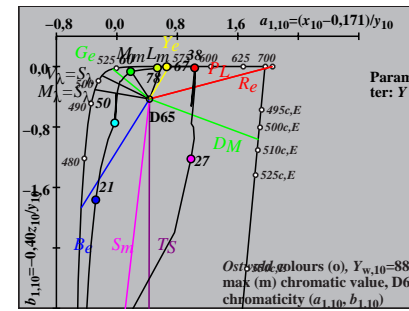
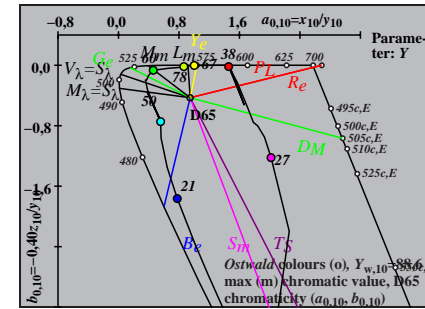
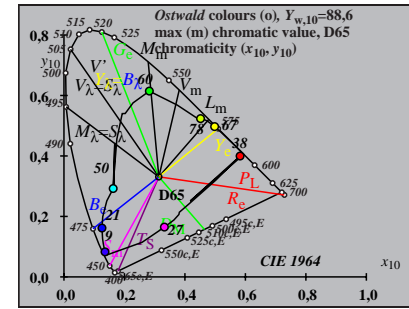


Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for D65,  $Y_{w,10}=88.6$ ,  $Y_m=520.770$

$i_1, \lambda_1$	$i_2, \lambda_2$	$X_{10}$	$Y_{10}$	$Z_{10}$	$x_{10}$	$y_{10}$	$z_{10}$	$h_{xy,10}$	$i_d, \lambda_d$	$i_c, \lambda_c$	Code
0	405	31	556	28.12	50.11	94.37	0.1629	0.2903	0.5467	195.0	15 476 37 585 Cm
6	435	31	557	24.8	50.86	74.08	0.1656	0.3396	0.4947	176.6	16 480 44 621
10	450	31	559	19.54	50.96	41.21	0.1749	0.4561	0.3689	137.9	18 491 -1 491c
11	460	32	562	19.75	52.51	33.04	0.1875	0.4986	0.3137	126.9	19 498 -1 498c
12	465	33	565	20.22	53.96	25.67	0.2025	0.5403	0.2571	117.9	21 506 -1 506c
14	470	34	570	21.81	55.87	14.19	0.2373	0.6081	0.1544	105.3	24 522 -1 522c
15	475	35	579	27.93	60.81	10.22	0.2822	0.6144	0.1032	96.3	26 533 -1 533c Gm
16	480	41	606	47.87	72.59	7.29	0.3746	0.5682	0.0571	75.5	30 550 -1 550c
16	485	-1	484c	68.26	81.76	7.29	0.4339	0.5197	0.0463	57.5	32 560 10 454
18	490	-1	490c	68.1	78.9	3.72	0.4518	0.5234	0.0247	54.3	32 562 11 459 max
19	495	-1	495c	68.08	77.11	2.63	0.4605	0.5216	0.0178	52.4	32 563 12 461
19	500	-1	499c	68.08	77.11	2.63	0.4605	0.5216	0.0178	52.4	32 563 12 461
22	510	-1	510c	67.71	70.07	0.89	0.4882	0.5052	0.0064	44.9	33 566 13 466
23	520	-1	519c	67.33	67.16	0.6	0.4983	0.4971	0.0045	41.9	33 568 13 468 Ym
26	530	-1	530c	64.81	56.85	0.14	0.532	0.4667	0.0012	31.8	34 573 14 472
27	540	-1	539c	63.44	53.07	0.07	0.5441	0.4551	0.0006	28.3	35 576 14 473
28	545	-1	544c	61.79	49.2	0.03	0.5565	0.4431	0.0003	24.7	35 578 14 474
29	550	-1	549c	59.85	45.28	0.01	0.5691	0.4306	0.0001	21.3	36 580 15 475
31	555	-1	555c	55.06	37.53	0.0	0.5946	0.4053	0.0	14.8	37 586 15 476
32	560	10	451	62.45	35.47	51.78	0.4171	0.2369	0.3458	317.7	-1 492c 18 492
31	556	0	405	66.68	49.88	12.95	0.5148	0.3851	0.1	15.0	37 585 15 476 Rm
31	557	6	435	70.0	49.13	33.24	0.4594	0.3224	0.2181	356.6	44 621 16 480
31	559	10	450	75.26	49.03	66.11	0.3952	0.2575	0.3472	317.9	-1 491c 18 491
32	562	11	460	75.06	47.48	74.29	0.3813	0.2412	0.3774	307.0	-1 498c 19 498
33	565	12	465	74.58	46.03	81.65	0.3687	0.2275	0.4036	298.0	-1 506c 21 506
34	570	14	470	73.0	44.12	93.14	0.3471	0.2098	0.4429	285.4	-1 522c 24 522
35	579	15	475	66.88	39.18	97.11	0.3291	0.1928	0.4779	276.3	-1 533c 26 533 Mm
41	606	16	480	46.93	27.4	100.03	0.2691	0.1571	0.5736	255.6	-1 550c 30 550
-1	484c	16	485	26.54	18.23	100.03	0.1833	0.1258	0.6907	237.5	10 454 32 560
-1	490c	18	490	26.71	21.09	103.61	0.1764	0.1393	0.6842	234.3	11 459 32 562
-1	495c	19	495	26.73	22.88	104.69	0.1732	0.1482	0.6784	232.4	12 461 32 563
-1	499c	19	500	26.73	22.88	104.69	0.1732	0.1482	0.6784	232.4	12 461 32 563
-1	510c	22	510	27.1	29.92	106.43	0.1657	0.183	0.6511	225.0	13 466 33 566
-1	519c	23	520	27.48	32.83	106.72	0.1645	0.1965	0.6389	222.0	13 468 33 568 Ym
-1	530c	26	530	30.0	43.14	107.18	0.1663	0.2392	0.5943	211.8	14 472 34 573
-1	539c	27	540	31.36	46.92	107.25	0.169	0.2529	0.578	208.3	14 473 35 576
-1	544c	28	545	33.01	50.79	107.29	0.1727	0.2657	0.5614	204.8	14 474 35 578
-1	549c	29	550	34.96	54.71	107.32	0.1774	0.2777	0.5447	201.3	15 475 36 580
-1	555c	31	555	39.75	62.46	107.33	0.1896	0.298	0.5122	194.8	15 476 37 586
10	451	32	560	32.36	64.52	55.55	0.2122	0.4232	0.3644	137.6	18 492 -1 492c
380	770	83.99	88.59	95.08	0.3137	0.3309	0.3552	0.0			

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 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

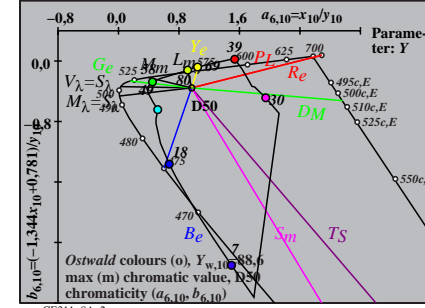
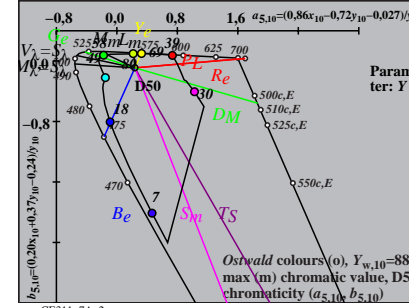
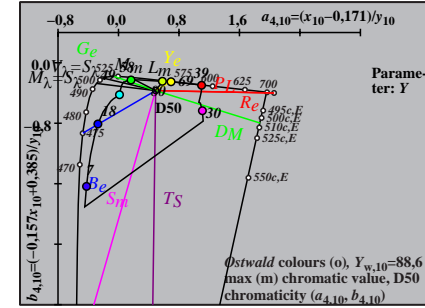
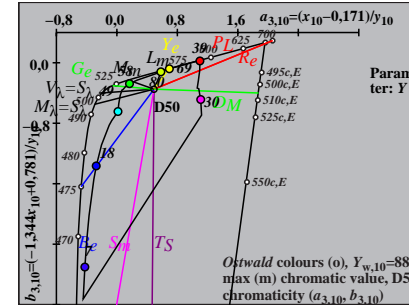
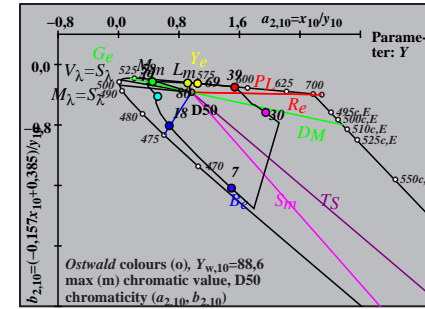
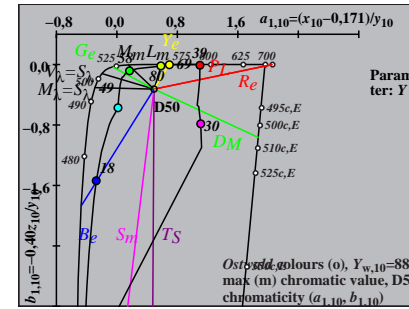
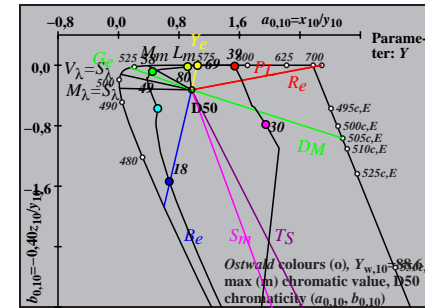
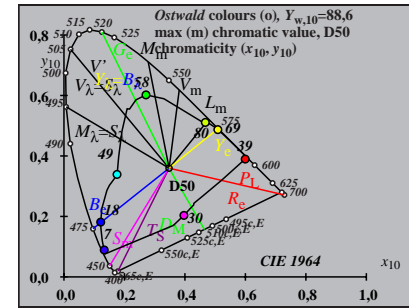


TUB registration: 20170801-CE31/CE31LONA.TXT /PS  
 application for measurement of offset print output  
 TUB material: code=rh4ta

Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for D50,  $Y_{w,10}=88.6$ ,  $Y_m=520.770$

$i_1, \lambda_1$	$i_2, \lambda_2$	$X_{10}$	$Y_{10}$	$Z_{10}$	$x_{10}$	$y_{10}$	$z_{10}$	$h_{xy,10}$	$i_d, \lambda_d$	$i_c, \lambda_c$	Code	
1	405	31 559	25.72	49.57	71.05	0.1757	0.3387	0.4855	186.9	15 479	37 589	Cm
7	435	32 561	22.74	49.98	52.96	0.1809	0.3976	0.4213	167.1	16 484	58 693	
10	450	32 562	19.94	50.19	33.68	0.1921	0.4834	0.3244	141.4	18 493	-1 493c	
12	460	32 564	19.11	50.86	21.5	0.2089	0.5559	0.2351	125.2	20 503	-1 503c	
13	465	33 566	19.68	51.8	16.41	0.2239	0.5892	0.1867	118.3	22 512	-1 512c	
14	470	34 570	21.54	53.71	12.21	0.2462	0.614	0.1396	111.7	24 521	-1 521c	
15	475	35 576	25.74	57.15	8.92	0.2803	0.6224	0.0971	104.3	26 531	-1 531c	Gm
16	480	38 590	36.57	64.56	6.46	0.3399	0.6	0.06	91.8	28 543	-1 543c	
17	485	-1 485c	73.94	82.03	4.68	0.4602	0.5105	0.0291	53.2	32 563	11 458	
18	490	-1 490c	73.91	80.7	3.39	0.4677	0.5107	0.0214	51.5	32 564	12 460	max
19	495	-1 495c	73.89	79.13	2.43	0.4753	0.509	0.0156	49.5	33 565	12 462	
20	500	-1 500c	73.85	77.28	1.72	0.4831	0.5055	0.0113	47.1	33 566	12 464	
21	510	-1 509c	73.75	75.15	1.22	0.4912	0.5005	0.0081	44.4	33 567	13 466	
24	520	-1 520c	72.64	66.96	0.39	0.5188	0.4783	0.0027	34.7	34 571	14 471	Ym
25	530	-1 529c	71.83	63.63	0.24	0.5293	0.4688	0.0018	31.0	34 573	14 473	
28	540	-1 540c	67.8	52.55	0.03	0.5631	0.4365	0.0002	19.6	35 579	15 476	
29	545	-1 545c	65.86	48.65	0.01	0.575	0.4248	0.0001	16.0	36 581	15 477	
29	550	-1 549c	65.86	48.65	0.01	0.575	0.4248	0.0001	16.0	36 581	15 477	
31	555	-1 555c	61.01	40.81	0.0	0.5991	0.4008	0.0	9.3	37 587	15 479	
32	560	2 411	58.5	37.02	1.78	0.6012	0.3804	0.0183	4.7	38 591	16 480	
31	559	1 405	70.99	50.42	10.35	0.5387	0.3826	0.0785	6.9	37 589	15 479	Rm
32	561	7 435	73.98	50.01	28.44	0.4852	0.328	0.1866	347.1	58 693	16 484	
32	562	10 450	76.78	49.8	47.72	0.4404	0.2857	0.2738	321.5	-1 493c	18 493	
32	564	12 460	77.61	49.13	59.9	0.4158	0.2632	0.3209	305.2	-1 503c	20 503	
33	566	13 465	77.03	48.19	64.99	0.4049	0.2533	0.3416	298.3	-1 512c	22 512	
34	570	14 470	75.18	46.28	69.19	0.3943	0.2427	0.3629	291.7	-1 521c	24 521	
35	576	15 475	70.98	42.84	72.48	0.3809	0.2299	0.389	284.4	-1 531c	26 531	Mm
38	590	16 480	60.14	35.43	74.95	0.3526	0.2077	0.4395	271.9	-1 543c	28 543	
-1	485c	17 485	22.77	17.96	76.72	0.1938	0.1529	0.6531	233.3	11 458	32 563	
-1	490c	18 490	22.81	19.29	78.02	0.1899	0.1605	0.6494	231.5	12 460	32 564	
-1	495c	19 495	22.83	20.86	78.97	0.1861	0.1701	0.6437	229.5	12 462	33 565	
-1	500c	20 500	22.86	22.71	79.68	0.1825	0.1813	0.636	227.1	12 464	33 566	
-1	509c	21 510	22.96	24.84	80.18	0.1794	0.1941	0.6264	224.5	13 466	33 567	
-1	520c	24 520	24.08	33.03	81.02	0.1743	0.2391	0.5865	214.7	14 471	34 571	Bm
-1	529c	25 530	24.88	36.36	81.16	0.1747	0.2553	0.5699	211.0	14 473	34 573	
-1	540c	28 540	28.92	47.44	81.37	0.1833	0.3007	0.5158	199.6	15 476	35 579	
-1	545c	29 545	30.86	51.34	81.39	0.1886	0.3138	0.4975	196.0	15 477	36 581	
-1	549c	29 550	30.86	51.34	81.39	0.1886	0.3138	0.4975	196.0	15 477	36 581	
-1	555c	31 555	35.7	59.18	81.41	0.2025	0.3356	0.4617	189.3	15 479	37 587	
2	411	32 560	38.21	62.97	79.63	0.2113	0.3482	0.4403	184.7	16 480	38 591	
380	770	85.68	88.58	72.12	0.3477	0.3595	0.2927	0.0				

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 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>



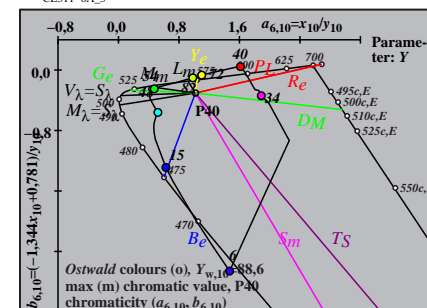
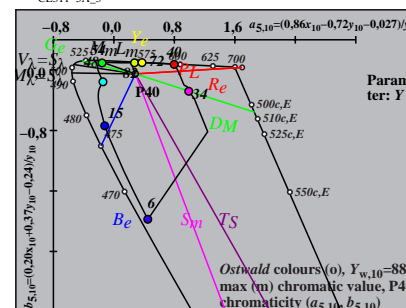
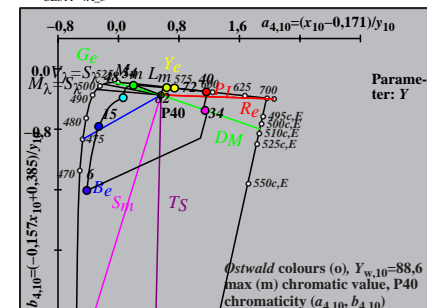
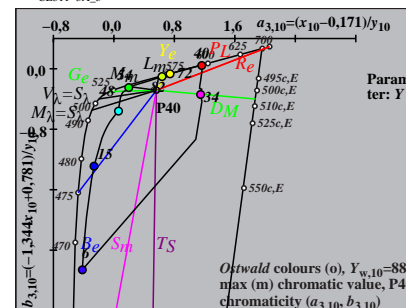
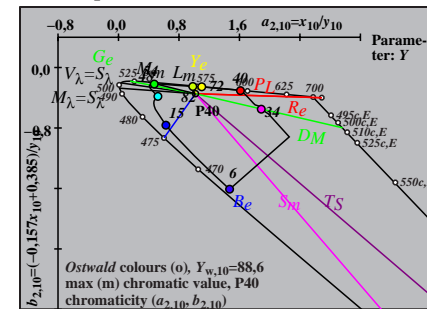
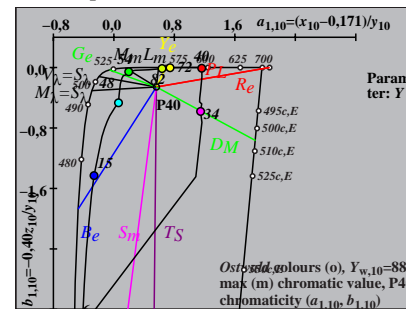
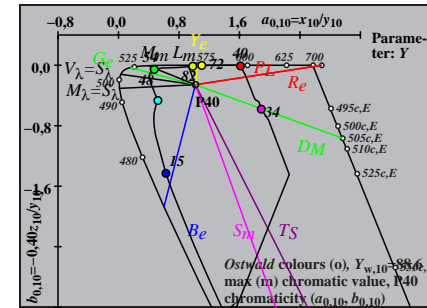
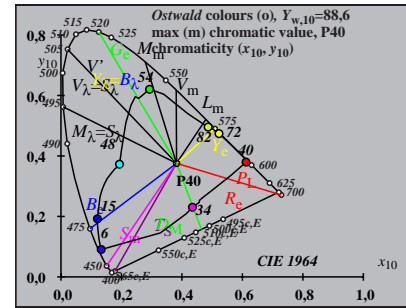
TUB-test chart CE31; CIE ( $x_{10}, y_{10}$ ) and chromaticities ( $a_{i,10}, b_{i,10}$ ) input: w/rgb/cmyk -> rgb  
 Ostwald optimal colours for illuminant D50; diagram for illuminant D50,  $Y_{w,10}=88.6$

TUB registration: 20170801-CE31/CE31LONA.TXT /PS  
 application for measurement of offset print output  
 TUB material: code=rh4ta

Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for P40,  $Y_{w,10}=88,6$ ,  $Y_m=520_770$

$i_1, \lambda_1$	$i_2, \lambda_2$	$X_{10}$	$Y_{10}$	$Z_{10}$	$x_{10}$	$y_{10}$	$z_{10}$	$h_{xy,10}$	$i_d, \lambda_d$	$i_c, \lambda_c$	Code
0	405	32	563	25.22	48.29	56.71	0.1937	0.3708	0.4354	181.4	16 481 38 591 Cm
7	435	32	564	22.5	48.56	40.64	0.2014	0.4347	0.3638	161.8	17 487 -1 487c
10	450	33	565	20.53	48.79	26.34	0.2146	0.5099	0.2753	141.2	19 495 -1 495c
12	460	33	567	20.14	49.38	17.32	0.2319	0.5686	0.1994	127.9	21 505 -1 505c
12	465	33	568	21.3	50.64	17.32	0.2386	0.5673	0.194	126.8	21 506 -1 506c
14	470	34	571	22.34	51.74	10.14	0.2652	0.6142	0.1204	116.0	24 521 -1 521c
15	475	35	576	25.73	54.48	7.56	0.2931	0.6206	0.0861	109.9	26 531 -1 531c Gm
16	480	37	585	33.82	60.22	5.58	0.3394	0.6044	0.056	100.5	28 542 -1 542c
17	485	42	611	57.84	73.36	4.1	0.4274	0.5421	0.0303	74.7	31 558 -1 558c
17	490	-1 489c	80.89	83.41	4.1	0.4803	0.4952	0.0243	50.6	33 566 11 458 max	
19	495	-1 495c	80.84	80.92	2.17	0.4931	0.4935	0.0132	46.7	33 568 12 463	
20	500	-1 500c	80.81	79.31	1.56	0.4998	0.4905	0.0096	44.3	33 569 13 465	
22	510	-1 510c	80.54	75.25	0.78	0.5143	0.4805	0.005	38.4	34 571 13 469	
23	520	-1 519c	80.22	72.76	0.54	0.5225	0.4739	0.0035	35.0	34 572 14 471 Ym	
25	530	-1 529c	78.98	66.96	0.22	0.5403	0.4581	0.0015	27.5	35 575 14 474	
28	540	-1 540c	75.19	56.6	0.03	0.5703	0.4293	0.0002	15.9	36 581 15 477	
28	545	-1 544c	75.19	56.6	0.03	0.5703	0.4293	0.0002	15.9	36 581 15 477	
30	550	-1 550c	71.13	49.03	0.0	0.5919	0.408	0.0	8.7	37 585 15 479	
31	555	-1 555c	68.55	45.14	0.0	0.6029	0.397	0.0	5.5	37 587 16 480	
31	560	-1 559c	68.55	45.14	0.0	0.6029	0.397	0.0	5.5	37 587 16 480	
32	563	0	405	76.52	51.7	7.73	0.5628	0.3803	0.0568	1.4	38 591 16 481 Rm
32	564	7	435	79.24	51.43	23.8	0.5129	0.3329	0.154	341.9	-1 487c 17 487
33	565	10	450	81.21	51.2	38.09	0.4762	0.3003	0.2234	321.3	-1 495c 19 495
33	567	12	460	81.6	50.61	47.12	0.455	0.2822	0.2627	307.9	-1 505c 21 505
33	568	12	465	80.44	49.35	47.12	0.4547	0.2789	0.2663	306.8	-1 506c 21 506
34	571	14	470	79.4	48.25	54.29	0.4363	0.2651	0.2984	296.1	-1 521c 24 521
35	576	15	475	76.01	45.51	56.88	0.426	0.255	0.3188	290.0	-1 531c 26 531 Mm
37	585	16	480	67.92	39.77	58.85	0.4078	0.2387	0.3533	280.6	-1 542c 28 542
42	611	17	485	43.9	26.63	60.34	0.3354	0.2034	0.461	254.8	-1 558c 31 558
-1 489c	17	490	20.85	16.58	60.34	0.2132	0.1696	0.6171	230.6	11 458 33 566 min	
-1 495c	19	495	20.9	19.07	62.27	0.2044	0.1865	0.609	226.7	12 463 33 568	
-1 500c	20	500	20.93	20.68	62.88	0.2003	0.1979	0.6017	224.3	13 465 33 569	
-1 510c	22	510	21.2	24.74	63.66	0.1934	0.2257	0.5807	218.4	13 469 34 571	
-1 519c	23	520	21.53	27.23	63.9	0.191	0.2417	0.5671	215.0	14 471 34 572 Bm	
-1 529c	25	530	22.76	33.03	64.21	0.1897	0.2752	0.535	207.5	14 474 35 575	
-1 540c	28	540	26.55	43.39	64.41	0.1976	0.3229	0.4794	195.9	15 477 36 581	
-1 544c	28	545	26.55	43.39	64.41	0.1976	0.3229	0.4794	195.9	15 477 36 581	
-1 550c	30	550	30.61	50.96	64.44	0.2096	0.349	0.4413	188.7	15 479 37 585	
-1 555c	31	555	33.19	54.85	64.44	0.2176	0.3597	0.4226	185.5	16 480 37 587	
-1 559c	31	560	33.19	54.85	64.44	0.2176	0.3597	0.4226	185.5	16 480 37 587	
380	770	90.14	88.59	57.09	0.3822	0.3756	0.2421	0.0			

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 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>



TUB-test chart CE31; CIE ( $x_{10}, y_{10}$ ) and chromaticities ( $a_{i,10}, b_{i,10}$ ) input: w/rgb/cmyk -> rgb  
 Ostwald optimal colours for illuminant P40; diagram for illuminant P40,  $Y_{w,10}=88,6$

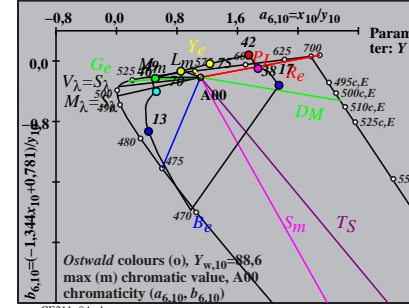
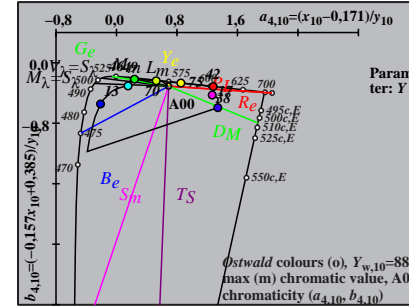
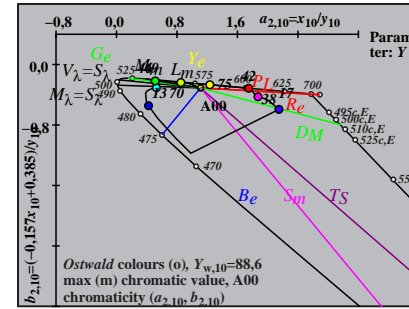
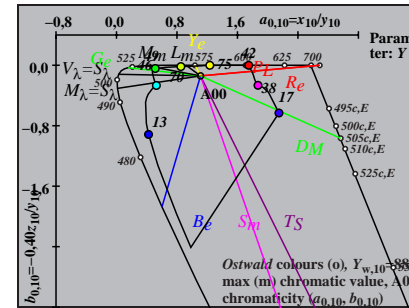
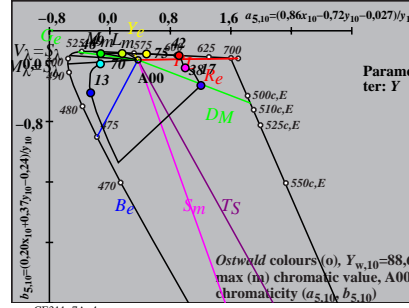
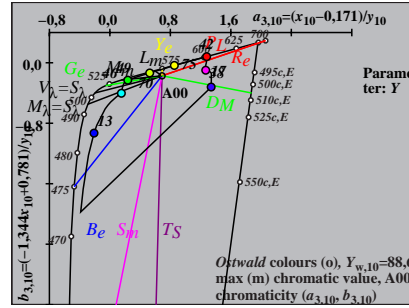
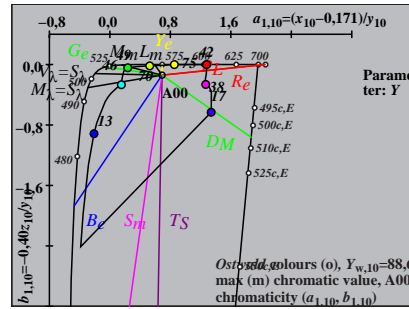
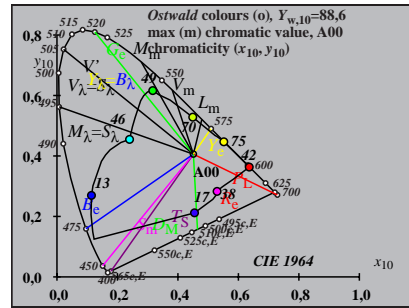
TUB registration: 20170801-CE31/CE31LONA.TXT / PS  
 application for measurement of offset print output

TUB material: code=rh4ta

Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for A00,  $Y_{w,10}=88,6$ ,  $Y_m=520,770$

$i_1, \lambda_1$	$i_2, \lambda_2$	$X_{10}$	$Y_{10}$	$Z_{10}$	$x_{10}$	$y_{10}$	$z_{10}$	$h_{xy,10}$	$i_d, \lambda_d$	$i_c, \lambda_c$	Code
1	405	34	570	24.41	46.3	30.85	0.2404	0.4558	0.3037	166.6	17 487 39 597 Cm
7	435	34	570	23.37	46.48	23.83	0.2494	0.4961	0.2544	155.9	18 491 47 639
9	450	34	571	22.92	46.75	19.01	0.2584	0.5271	0.2144	147.8	19 495 -1 495c
12	460	34	572	22.3	46.95	11.32	0.2768	0.5826	0.1405	134.6	21 505 -1 505c
13	465	34	573	22.67	47.37	9.0	0.2867	0.5992	0.1139	130.3	22 512 -1 512c
14	470	34	574	23.6	48.19	6.99	0.2995	0.6116	0.0887	126.3	24 520 -1 520c
15	475	35	576	25.5	49.59	5.35	0.3169	0.6164	0.0665	122.5	25 528 -1 528c Gm
16	480	36	581	29.32	52.34	4.06	0.342	0.6105	0.0474	118.0	27 537 -1 537c
17	485	37	588	37.11	57.43	3.06	0.3802	0.5884	0.0313	111.2	29 547 -1 547c
18	490	41	609	60.13	69.96	2.29	0.4542	0.5284	0.0173	88.5	32 561 -1 561c max
19	495	-1	495c	93.65	83.69	1.7	0.523	0.4674	0.0095	40.5	34 573 13 465
20	500	-1	500c	93.63	82.5	1.25	0.5278	0.4651	0.007	37.6	34 573 13 468
21	510	-1	509c	93.56	81.07	0.91	0.5329	0.4618	0.0052	34.3	34 574 14 470
24	520	-1	520c	92.73	75.08	0.31	0.5515	0.4465	0.0018	22.0	35 577 15 476 Ym
25	530	-1	529c	92.11	72.52	0.2	0.5588	0.4399	0.0012	17.5	35 578 15 477
27	540	-1	539c	90.14	66.59	0.06	0.5748	0.4246	0.0004	8.6	36 581 16 480
29	545	-1	545c	86.98	59.77	0.01	0.5926	0.4072	0.0	0.5	37 585 16 483
30	550	-1	550c	84.87	56.1	0.0	0.602	0.3979	0.0	0.0	35.7 37 587 16 484
31	555	-1	555c	82.34	52.29	0.0	0.6116	0.3883	0.0	0.0	35.3 37 589 17 485
32	560	-1	560c	79.36	48.36	0.0	0.6213	0.3786	0.0	0.0	35.0 38 592 17 486
34	570	1	405	86.73	53.69	4.34	0.599	0.3709	0.03	346.6	39 597 17 487 Rm
34	570	7	435	87.77	53.51	11.36	0.575	0.3505	0.0744	335.9	47 639 18 491
34	571	9	450	88.22	53.24	16.18	0.5596	0.3377	0.1026	327.8	-1 495c 19 495
34	572	12	460	88.84	53.04	23.87	0.5359	0.32	0.144	314.6	-1 505c 21 505
34	573	13	465	88.47	52.62	26.19	0.5288	0.3145	0.1565	310.4	-1 512c 22 512
34	574	14	470	87.54	51.8	28.2	0.5224	0.3091	0.1683	306.4	-1 520c 24 520
35	576	15	475	85.64	50.4	29.84	0.5162	0.3038	0.1798	302.5	-1 528c 25 528 Mm
36	581	16	480	81.82	47.65	31.13	0.5094	0.2966	0.1938	298.1	-1 537c 27 537
37	588	17	485	74.03	42.56	32.13	0.4977	0.2861	0.216	291.2	-1 547c 29 547
41	609	18	490	51.01	30.03	32.9	0.4476	0.2635	0.2887	268.6	-1 561c 32 561 min
-1	495c	19	495	17.49	16.3	33.49	0.2599	0.2422	0.4977	220.5	13 465 34 573
-1	500c	20	500	17.51	17.49	33.94	0.254	0.2536	0.4922	217.6	13 468 34 573
-1	509c	21	510	17.58	18.92	34.28	0.2484	0.2672	0.4842	214.3	14 470 34 574
-1	520c	24	520	18.41	24.91	34.88	0.2354	0.3185	0.446	202.0	15 476 35 577 Bm
-1	529c	25	530	19.03	27.47	34.99	0.2335	0.3371	0.4293	197.5	15 477 35 578
-1	539c	27	540	21.0	33.4	35.13	0.2345	0.373	0.3923	188.6	16 480 36 581
-1	545c	29	545	24.16	40.22	35.18	0.2426	0.4039	0.3533	180.5	16 483 37 585
-1	550c	30	550	26.27	43.89	35.19	0.2494	0.4165	0.334	176.9	16 484 37 587
-1	555c	31	555	28.8	47.7	35.19	0.2578	0.427	0.315	173.7	17 485 37 589
-1	560c	32	560	31.78	51.63	35.19	0.2679	0.4352	0.2967	170.8	17 486 38 592
380	770	98.46	88.59	31.18	0.4511	0.4059	0.1428	0.0			

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 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>



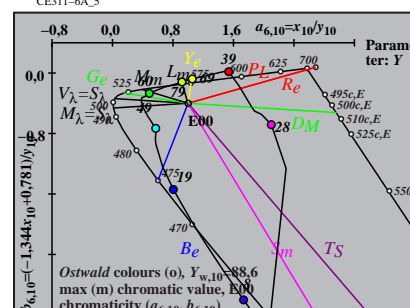
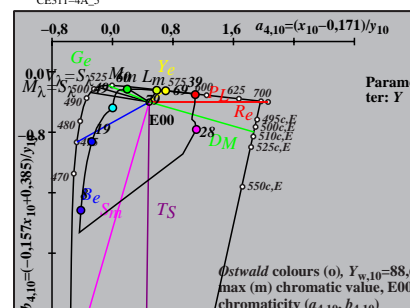
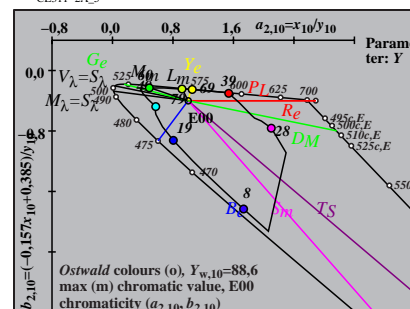
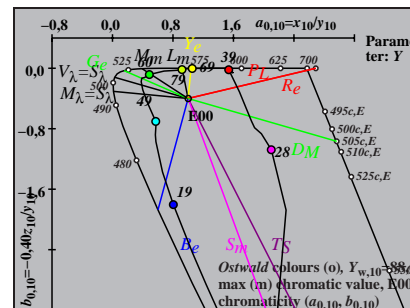
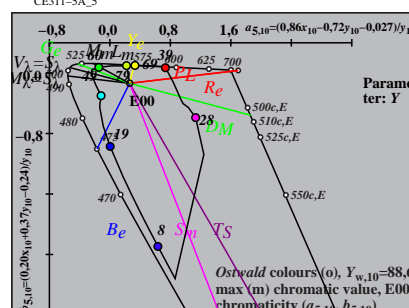
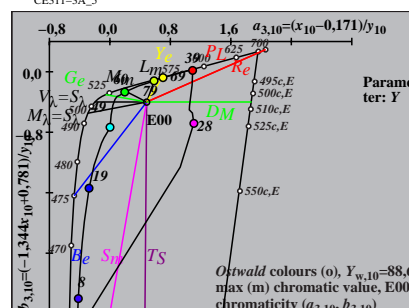
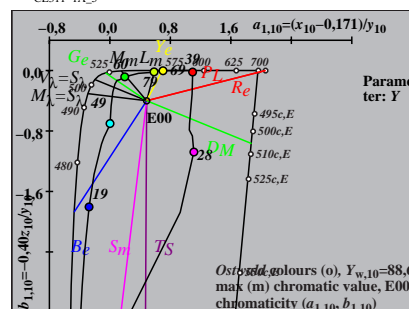
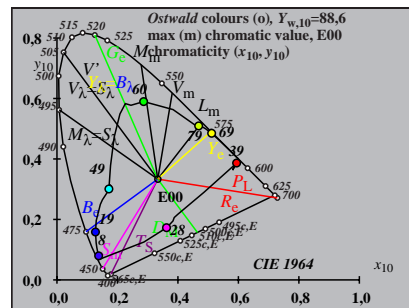
TUB-test chart CE31; CIE ( $x_{10}, y_{10}$ ) and chromaticities ( $a_{i,10}, b_{i,10}$ ) input: w/rgb/cmyk -> rgb  
 Ostwald optimal colours for illuminant A00; diagram for illuminant A00,  $Y_{w,10}=88,6$

TUB registration: 20170801-CE31/CE31LONA.TXT /PS  
 application for measurement of offset print output  
 TUB material: code=rh4ta

Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for E00,  $Y_{w,10}=88,6$ ,  $Y_m=520_770$

$i_1, \lambda_1$	$i_2, \lambda_2$	$X_{10}$	$Y_{10}$	$Z_{10}$	$x_{10}$	$y_{10}$	$z_{10}$	$h_{xy,10}$	$i_d, \lambda_d$	$i_c, \lambda_c$	Code
1	405	31 559	28.18	49.32	86.6	0.1717	0.3005	0.5277	191.4	15 477 37 589	Cm
7	435	32 561	23.26	49.67	58.35	0.1772	0.3783	0.4444	163.8	16 484 -1 484c	
10	450	32 562	20.01	49.98	35.73	0.1893	0.4727	0.3379	135.9	18 493 -1 493c	
12	460	33 565	19.33	50.94	22.54	0.2082	0.5488	0.2429	120.1	21 506 -1 506c	
13	465	33 568	20.25	52.23	17.09	0.2261	0.583	0.1908	113.2	23 515 -1 515c	
13	470	34 572	23.54	55.57	17.09	0.2447	0.5775	0.1776	109.9	24 520 -1 520c	
14	475	36 581	29.38	60.42	12.63	0.2868	0.5897	0.1233	100.2	26 532 -1 532c	Gm
16	480	40 604	48.47	71.12	6.66	0.3839	0.5632	0.0528	77.5	30 551 -1 551c	
17	485	-1 485c	73.62	81.33	4.79	0.4608	0.5091	0.03	54.0	32 564 11 456	
18	490	-1 490c	73.58	79.94	3.43	0.4688	0.5093	0.0218	52.3	32 564 11 458	max
19	495	-1 495c	73.57	78.31	2.44	0.4766	0.5074	0.0158	50.5	33 565 12 460	
20	500	-1 500c	73.53	76.43	1.72	0.4847	0.5038	0.0113	48.3	33 566 12 462	
22	510	-1 510c	73.22	71.82	0.84	0.5019	0.4922	0.0057	43.2	33 569 13 466	
23	520	-1 519c	72.86	69.07	0.57	0.5113	0.4846	0.004	40.3	34 570 13 468	Ym
25	530	-1 529c	71.54	62.84	0.23	0.5314	0.4668	0.0017	33.9	34 573 14 470	
27	540	-1 539c	69.22	55.84	0.07	0.5531	0.4462	0.0006	27.1	35 577 14 473	
29	545	-1 545c	65.78	48.4	0.01	0.576	0.4238	0.0001	20.4	36 582 15 475	
29	550	-1 549c	65.78	48.4	0.01	0.576	0.4238	0.0001	20.4	36 582 15 475	
31	555	-1 555c	61.1	40.83	0.0	0.5993	0.4005	0.0	14.1	37 587 15 476	
32	560	3 415 59.5	37.2	5.75	0.5806	0.3631	0.0562	6.8	39 595 15 478		
31	559	1 405 71.8	50.67	13.4	0.5284	0.3729	0.0986	11.4	37 589 15 477	Rm	
32	561	7 435 76.72	50.32	41.65	0.4547	0.2982	0.2469	343.9	-1 484c 16 484		
32	562	10 450 79.97	50.01	64.27	0.4116	0.2574	0.3308	315.9	-1 493c 18 493		
33	565	12 460 80.66	49.05	77.46	0.3893	0.2367	0.3738	300.1	-1 506c 21 506		
33	568	13 465 79.73	47.76	82.91	0.3789	0.2269	0.394	293.2	-1 515c 23 515		
34	572	13 470 76.44	44.42	82.91	0.3751	0.218	0.4068	289.9	-1 520c 24 520		
36	581	14 475 70.6	39.57	87.37	0.3573	0.2003	0.4422	280.3	-1 532c 26 532	Mm	
40	604	16 480 51.51	28.87	93.34	0.2965	0.1662	0.5372	257.6	-1 551c 30 551		
-1	485c	17 485 26.36	18.66	95.21	0.1879	0.133	0.6789	234.0	11 456 32 564		
-1	490c	18 490 26.4	20.05	96.57	0.1845	0.1402	0.6752	232.4	11 458 32 564	min	
-1	495c	19 495 26.41	21.68	97.56	0.1813	0.1488	0.6697	230.5	12 460 33 565		
-1	500c	20 500 26.45	23.56	98.28	0.1783	0.1588	0.6627	228.4	12 462 33 566		
-1	510c	22 510 26.76	28.17	99.16	0.1736	0.1828	0.6434	223.3	13 466 33 569		
-1	519c	23 520 27.12	30.92	99.43	0.1722	0.1963	0.6314	220.3	13 468 34 570		
-1	529c	25 530 28.45	37.15	99.77	0.172	0.2246	0.6032	213.9	14 470 34 573		
-1	539c	27 540 30.76	44.15	99.93	0.1759	0.2525	0.5715	207.2	14 473 35 577		
-1	545c	29 545 34.2	51.59	99.99	0.1841	0.2776	0.5382	200.4	15 475 36 582		
-1	549c	29 550 34.2	51.59	99.99	0.1841	0.2776	0.5382	200.4	15 475 36 582		
-1	555c	31 555 38.88	59.16	100.0	0.1963	0.2987	0.5049	194.1	15 476 37 587		
3	415	32 560 40.49	62.79	94.25	0.2049	0.3178	0.4771	186.8	15 478 39 595		
380	770	88.58	88.58	88.59	0.3333	0.3333	0.3333	0.0			

see similar files: <http://farbe.li.tu-berlin.de/CE31/CE31.HTM>  
 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>



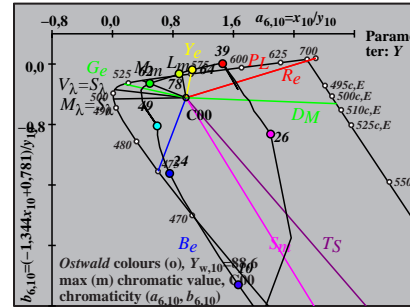
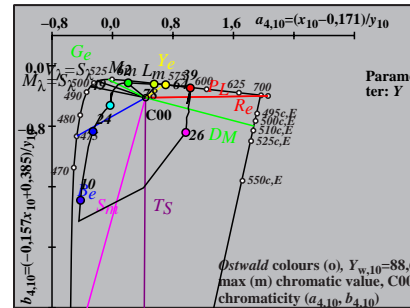
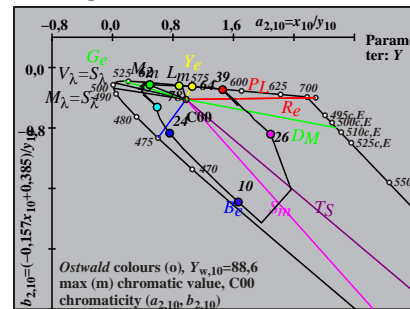
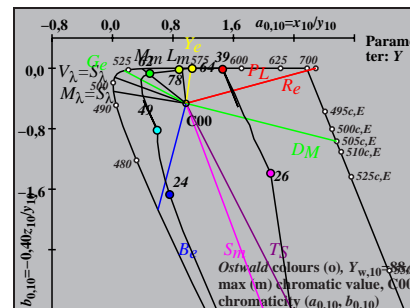
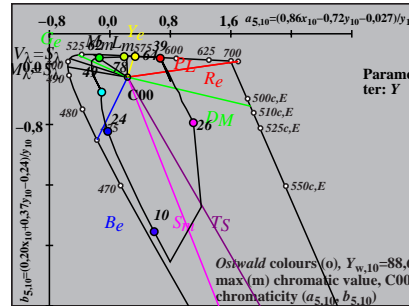
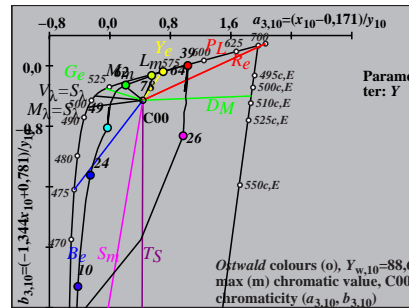
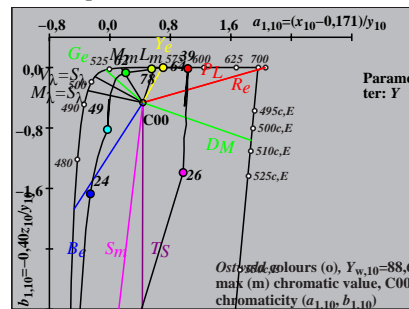
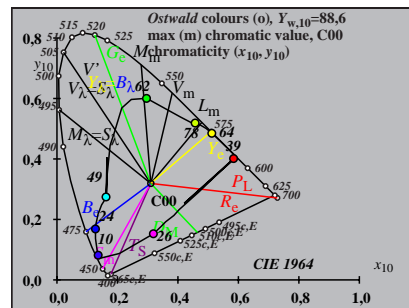
TUB registration: 20170801-CE31/CE31LONA.TXT / PS  
 application for measurement of offset print output

TUB material: code=rh4ta

**Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for C00,  $Y_{w,10}=88,6$ ,  $Y_m=520,770$**

$i_1, \lambda_1$	$i_2, \lambda_2$	$X_{10}$	$Y_{10}$	$Z_{10}$	$x_{10}$	$y_{10}$	$z_{10}$	$h_{xy,10}$	$i_d, \lambda_d$	$i_c, \lambda_c$	Code	
1	405	31 556	29.28	49.5	101.47	0.1624	0.2746	0.5629	196.7	15 475	37 586	Cm
6	435	31 558	25.71	50.35	79.37	0.1654	0.3239	0.5106	178.0	16 480	44 623	
9	450	32 560	21.63	50.96	52.26	0.1732	0.4081	0.4185	146.9	17 487	-1 487c	
12	460	32 563	19.07	51.67	27.03	0.1951	0.5284	0.2764	118.8	20 504	-1 504c	
12	465	33 566	21.12	54.03	27.03	0.2066	0.5287	0.2645	116.2	21 507	-1 507c	
13	470	34 572	23.98	57.3	20.34	0.236	0.5638	0.2001	106.8	24 520	-1 520c	
14	475	36 582	31.09	63.12	14.85	0.285	0.5787	0.1362	95.5	26 533	-1 533c	Gm
16	480	44 622	58.22	76.76	7.52	0.4085	0.5386	0.0527	65.8	31 556	0 403	
17	485	-1 485c	68.92	79.83	5.25	0.4475	0.5183	0.0341	55.4	32 562	11 459	max
18	490	-1 490c	68.87	78.19	3.64	0.457	0.5188	0.0241	53.7	32 563	11 459	max
19	495	-1 495c	68.86	76.34	2.51	0.4661	0.5168	0.017	51.7	32 564	12 461	
20	500	-1 500c	68.82	74.3	1.73	0.4751	0.5129	0.0119	49.6	33 565	12 463	
22	510	-1 510c	68.51	69.61	0.82	0.493	0.5009	0.0059	44.8	33 567	13 466	
24	520	-1 520c	67.63	64.04	0.37	0.5121	0.485	0.0028	39.4	34 570	13 468	Ym
26	530	-1 530c	65.87	57.57	0.14	0.5329	0.4658	0.0011	33.3	34 574	14 471	
28	540	-1 540c	62.96	50.2	0.03	0.5561	0.4434	0.0003	26.8	35 578	14 473	
28	545	-1 544c	62.96	50.2	0.03	0.5561	0.4434	0.0003	26.8	35 578	14 473	
29	550	-1 549c	61.02	46.31	0.01	0.5684	0.4314	0.0001	23.5	36 580	14 474	
31	555	-1 555c	56.12	38.38	0.0	0.5938	0.4061	0.0	17.0	37 585	15 475	
31	560	9 447	66.32	39.93	51.32	0.4208	0.2533	0.3257	329.3	-1 487c	17 487	
31	556	1 405	68.0	50.49	14.67	0.5106	0.3791	0.1101	16.6	37 586	15 475	Rm
31	558	6 435	71.57	49.64	36.77	0.453	0.3142	0.2327	358.0	44 623	16 480	
32	560	9 450	75.65	49.03	63.87	0.4012	0.26	0.3387	327.0	-1 487c	17 487	
32	563	12 460	78.2	48.32	89.11	0.3626	0.2241	0.4132	298.8	-1 504c	20 504	
33	566	12 465	76.16	45.96	89.11	0.3605	0.2175	0.4218	296.3	-1 507c	21 507	
34	572	13 470	73.29	42.69	95.8	0.346	0.2015	0.4523	286.9	-1 520c	24 520	Mm
36	582	14 475	66.19	36.87	101.28	0.3239	0.1804	0.4956	275.6	-1 533c	26 533	
44	622	16 480	39.06	23.23	108.62	0.2285	0.1359	0.6355	245.9	0 403	31 556	
-1	485c	17 485	28.35	20.16	110.89	0.1778	0.1264	0.6956	235.4	11 456	32 562	
-1	490c	18 490	28.4	21.8	112.5	0.1745	0.134	0.6913	233.7	11 459	32 563	min
-1	495c	19 495	28.42	23.65	113.62	0.1715	0.1427	0.6857	231.7	12 461	32 564	
-1	500c	20 500	28.46	25.69	114.41	0.1688	0.1524	0.6786	229.6	12 463	33 565	
-1	510c	22 510	28.77	30.38	115.31	0.1649	0.1741	0.6609	224.9	13 466	33 567	
-1	520c	24 520	29.65	35.95	115.77	0.1634	0.1982	0.6382	219.4	13 468	34 570	Bm
-1	530c	26 530	31.41	42.42	116.0	0.1654	0.2234	0.611	213.4	14 471	34 574	
-1	540c	28 540	34.32	49.79	116.1	0.1714	0.2486	0.5798	206.8	14 473	35 578	
-1	544c	28 545	34.32	49.79	116.1	0.1714	0.2486	0.5798	206.8	14 473	35 578	
-1	549c	29 550	36.25	53.68	116.13	0.1759	0.2605	0.5635	203.5	14 474	36 580	
-1	555c	31 555	41.16	61.61	116.14	0.188	0.2814	0.5305	197.0	15 475	37 585	
9	447	31 560	30.95	60.06	64.81	0.1986	0.3854	0.4159	149.2	17 487	-1 487c	
380	770	86.18	88.59	102.89	0.3103	0.319	0.3705	0.0				

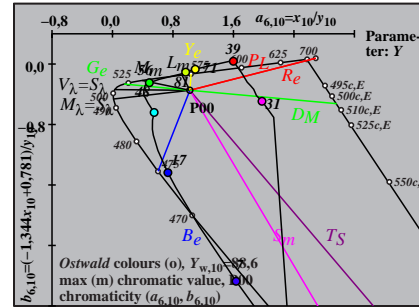
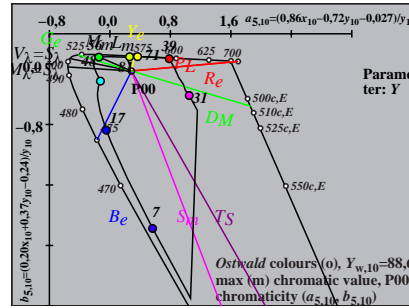
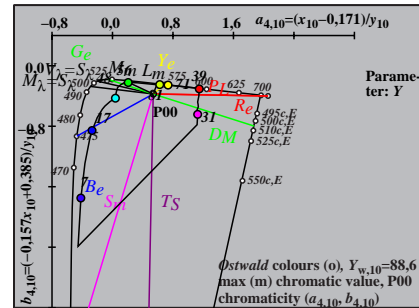
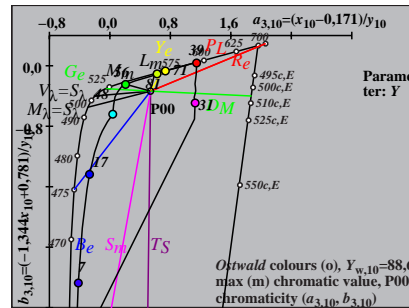
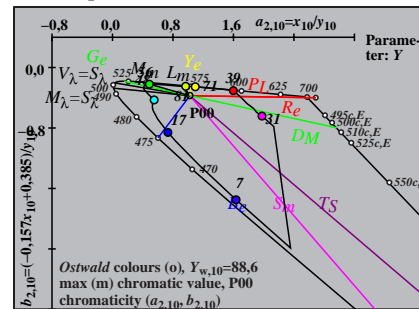
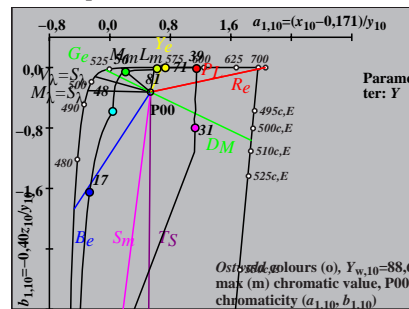
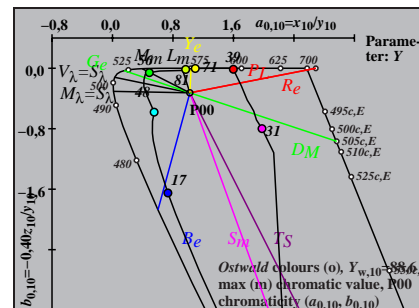
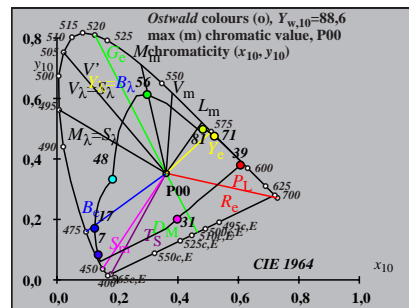
see similar files: <http://farbe.li.tu-berlin.de/CE31/CE31.HTM>  
 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>



Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for P00,  $Y_{w,10}=88,6$ ,  $Y_m=520_770$

$i_1, \lambda_1$	$i_2, \lambda_2$	$X_{10}$	$Y_{10}$	$Z_{10}$	$x_{10}$	$y_{10}$	$z_{10}$	$h_{xy,10}$	$i_d, \lambda_d$	$i_c, \lambda_c$	Code
0	405	32	562	26.98	48.64	71.34	0.1836	0.3309	0.4854	186.9	15 479 38 591 Cm
7	435	32	563	23.05	48.91	48.7	0.191	0.4053	0.4035	162.7	17 485 -1 485c
9	450	32	564	21.55	49.48	36.49	0.2004	0.4601	0.3394	146.1	18 491 -1 491c
12	460	33	567	20.0	49.93	19.53	0.2235	0.558	0.2183	123.7	21 506 -1 506c
13	465	33	569	20.73	50.97	14.94	0.2392	0.5882	0.1724	117.2	22 514 -1 514c
13	470	34	572	23.45	53.65	14.94	0.2547	0.5828	0.1623	114.7	23 518 -1 518c
15	475	35	579	27.57	56.67	8.21	0.2982	0.6129	0.0888	103.5	26 534 -1 534c Gm
16	480	38	593	40.32	64.97	5.99	0.3623	0.5837	0.0538	89.6	29 547 -1 547c
17	485	-1 485c	78.71	82.48	4.35	0.4754	0.4982	0.0263	51.7	33 566 11 457	
17	490	-1 489c	78.71	82.48	4.35	0.4754	0.4982	0.0263	51.7	33 566 11 457 max	
19	495	-1 495c	78.66	79.78	2.26	0.4894	0.4964	0.014	48.2	33 567 12 461	
19	500	-1 499c	78.66	79.78	2.26	0.4894	0.4964	0.014	48.2	33 567 12 461	
22	510	-1 510c	78.35	73.83	0.8	0.5121	0.4826	0.0052	40.6	34 570 13 467	
23	520	-1 519c	78.01	71.27	0.54	0.5206	0.4756	0.0036	37.6	34 572 13 469 Ym	
26	530	-1 530c	75.76	62.09	0.13	0.549	0.4499	0.0009	27.3	35 577 14 473	
28	540	-1 540c	72.97	55.01	0.03	0.57	0.4297	0.0002	20.2	36 580 15 475	
28	545	-1 544c	72.97	55.01	0.03	0.57	0.4297	0.0002	20.2	36 580 15 475	
29	550	-1 549c	71.13	51.31	0.01	0.5808	0.419	0.0	16.8	36 583 15 476	
31	555	-1 555c	66.45	43.74	0.0	0.603	0.3969	0.0	10.3	37 587 15 478	
32	560	-1 560c	63.56	39.93	0.0	0.6141	0.3858	0.0	7.4	38 590 15 479	
32	562	0	405	75.38	51.35	9.9	0.5516	0.3758	0.0724	6.9	38 591 15 479 Rm
32	563	7	435	79.31	51.08	32.54	0.4867	0.3134	0.1997	342.7	-1 485c 17 485
32	564	9	450	80.82	50.51	44.75	0.4589	0.2868	0.2541	326.1	-1 491c 18 491
33	567	12	460	82.37	50.06	61.71	0.4242	0.2578	0.3178	303.8	-1 506c 21 506
33	569	13	465	81.63	49.02	66.3	0.4144	0.2488	0.3366	297.3	-1 514c 22 514
34	572	13	470	78.92	46.34	66.3	0.4119	0.2419	0.3461	294.7	-1 518c 23 518
35	579	15	475	74.79	43.32	73.04	0.3912	0.2266	0.382	283.5	-1 534c 26 534 Mm
38	593	16	480	62.05	35.02	75.25	0.36	0.2032	0.4366	269.6	-1 547c 29 547
-1	485c	17	485	23.65	17.51	76.89	0.2003	0.1483	0.6512	231.8	11 457 33 566
-1	489c	17	490	23.65	17.51	76.89	0.2003	0.1483	0.6512	231.8	11 457 33 566 min
-1	495c	19	495	23.7	20.21	78.99	0.1928	0.1644	0.6426	228.2	12 461 33 567
-1	499c	19	500	23.7	20.21	78.99	0.1928	0.1644	0.6426	228.2	12 461 33 567
-1	510c	22	510	24.02	26.16	80.45	0.1838	0.2002	0.6158	220.7	13 467 34 570
-1	519c	23	520	24.35	28.72	80.7	0.182	0.2147	0.6032	217.6	13 469 34 572 Bm
-1	530c	26	530	26.6	37.9	81.11	0.1826	0.2602	0.557	207.3	14 473 35 577
-1	540c	28	540	29.39	44.98	81.21	0.1889	0.289	0.5219	200.2	15 475 36 580
-1	544c	28	545	29.39	44.98	81.21	0.1889	0.289	0.5219	200.2	15 475 36 580
-1	549c	29	550	31.23	48.68	81.24	0.1938	0.302	0.5041	196.8	15 476 36 583
-1	555c	31	555	35.92	56.25	81.25	0.2071	0.3243	0.4685	190.4	15 478 37 587
-1	560c	32	560	38.8	60.06	81.25	0.2154	0.3334	0.451	187.4	15 479 38 590
380	770	90.69	88.59	71.98	0.3609	0.3525	0.2864	0.0			

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 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>



TUB-test chart CE31; CIE ( $x_{10}, y_{10}$ ) and chromaticities ( $a_{i,10}, b_{i,10}$ ) input: w/rgb/cmyk -> rgb  
 Ostwald optimal colours for illuminant P00; diagram for illuminant P00,  $Y_{w,10}=88,6$

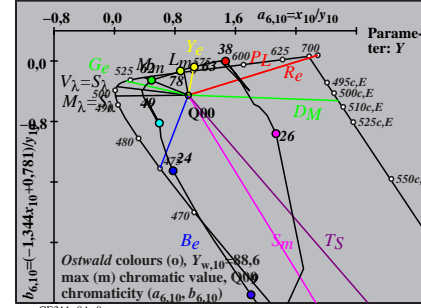
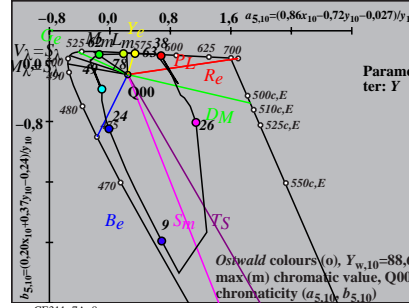
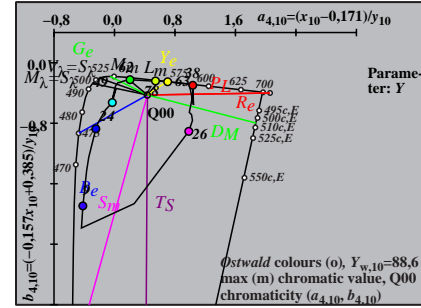
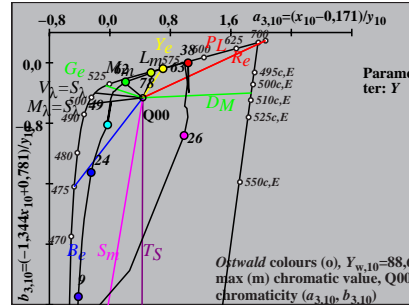
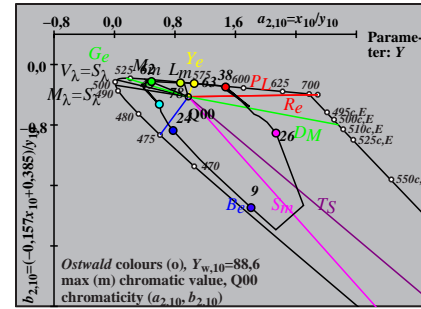
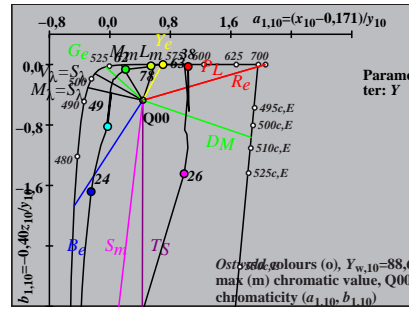
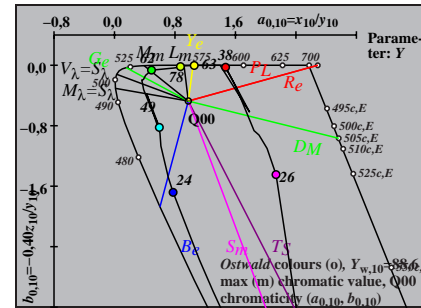
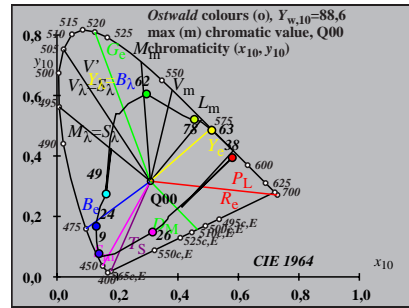
TUB registration: 20170801-CE31/CE31LONA.TXT / PS  
 application for measurement of offset print output

TUB material: code=rh4ta

Ostwald optimal colours (o) of maximum (m)  $C_{AB,10}$  for Q00,  $Y_{w,10}=88,6$ ,  $Y_m=520,770$

$i_1, \lambda_1$	$i_2, \lambda_2$	$X_{10}$	$Y_{10}$	$Z_{10}$	$x_{10}$	$y_{10}$	$z_{10}$	$h_{xy,10}$	$i_d, \lambda_d$	$i_c, \lambda_c$	Code	
1	405	31 556	29.63	49.88	102.39	0.1628	0.2742	0.5628	196.1	15 475	37 587	Cm
7	435	31 558	23.53	50.34	67.82	0.166	0.3553	0.4786	164.7	16 482	-1 482c	
10	450	32 560	19.56	50.73	40.9	0.1759	0.4562	0.3678	133.5	18 493	-1 493c	
12	460	32 563	18.74	51.88	25.5	0.195	0.5396	0.2652	117.0	21 506	-1 506c	
13	465	33 566	19.76	53.44	19.2	0.2138	0.5783	0.2077	109.9	23 515	-1 515c	
13	470	34 572	23.64	57.44	19.2	0.2357	0.5727	0.1914	105.9	24 520	-1 520c	
15	475	36 583	30.52	62.39	10.2	0.296	0.605	0.0989	92.5	27 536	-1 536c	Gm
15	480	45 629	61.34	79.6	10.2	0.4058	0.5266	0.0674	65.2	31 556	2 413	
17	485	-1 485c	68.63	80.21	5.23	0.4454	0.5206	0.0339	56.2	32 561	11 455	max
17	490	-1 489c	68.63	80.21	5.23	0.4454	0.5206	0.0339	56.2	32 561	11 455	max
18	495	-1 494c	68.58	78.66	3.71	0.4543	0.521	0.0246	54.6	32 562	11 458	
19	500	-1 499c	68.57	76.87	2.62	0.463	0.5191	0.0177	52.7	32 563	12 460	
21	510	-1 509c	68.42	72.48	1.28	0.4812	0.5097	0.009	48.2	33 566	12 464	
24	520	-1 520c	67.23	63.73	0.39	0.5118	0.4851	0.0029	39.7	34 570	13 468	Ym
26	530	-1 530c	65.35	56.8	0.14	0.5343	0.4644	0.0011	33.2	34 574	14 471	
27	540	-1 539c	64.02	53.11	0.07	0.5462	0.4531	0.0006	29.9	35 576	14 472	
29	545	-1 545c	60.52	45.54	0.01	0.5705	0.4293	0.0001	23.3	36 581	14 474	
30	550	-1 550c	58.34	41.75	0.0	0.5828	0.4171	0.0	20.1	36 583	15 475	
30	555	-1 554c	58.34	41.75	0.0	0.5828	0.4171	0.0	20.1	36 583	15 475	
31	560	9 447	67.0	39.61	55.74	0.4126	0.2439	0.3433	325.1	-1 488c	17 488	
31	556	1 405	68.01	50.11	16.03	0.5069	0.3735	0.1194	16.0	37 587	15 475	Rm
31	558	7 435	74.11	49.65	50.6	0.425	0.2847	0.2902	344.7	-1 482c	16 482	
32	560	10 450	78.08	49.26	77.51	0.3811	0.2404	0.3783	313.6	-1 493c	18 493	
32	563	12 460	78.9	48.11	92.92	0.3587	0.2187	0.4224	297.0	-1 506c	21 506	
33	566	13 465	77.88	46.55	99.22	0.3482	0.2081	0.4436	289.9	-1 515c	23 515	
34	572	13 470	74.0	42.55	99.22	0.3429	0.1972	0.4598	285.9	-1 520c	24 520	
36	583	15 475	67.12	37.6	108.22	0.3151	0.1766	0.5081	272.6	-1 536c	27 536	Mm
45	629	15 480	36.3	20.39	108.22	0.2201	0.1236	0.6561	245.2	2 413	31 556	
-1	485c	17 485	29.01	19.78	113.19	0.1791	0.1221	0.6987	236.2	11 455	32 561	min
-1	489c	17 490	29.01	19.78	113.19	0.1791	0.1221	0.6987	236.2	11 455	32 561	min
-1	494c	18 495	29.06	21.33	114.7	0.176	0.1292	0.6947	234.6	11 458	32 562	
-1	499c	19 500	29.07	23.12	115.79	0.173	0.1376	0.6892	232.7	12 460	32 563	
-1	509c	21 510	29.22	27.51	117.13	0.168	0.1582	0.6736	228.3	12 464	33 566	
-1	520c	24 520	30.41	36.26	118.03	0.1646	0.1963	0.639	219.7	13 468	34 570	Bm
-1	530c	26 530	32.29	43.19	118.28	0.1666	0.2229	0.6104	213.3	14 471	34 574	
-1	539c	27 540	33.62	46.88	118.34	0.1691	0.2357	0.5951	209.9	14 472	35 576	
-1	545c	29 545	37.12	54.45	118.41	0.1767	0.2593	0.5639	203.3	14 474	36 581	
-1	550c	30 550	39.3	58.24	118.42	0.1819	0.2697	0.5483	200.2	15 475	36 583	
-1	554c	30 555	39.3	58.24	118.42	0.1819	0.2697	0.5483	200.2	15 475	36 583	
9	447	31 560	30.64	60.38	62.67	0.1993	0.3928	0.4077	145.0	17 488	-1 488c	
380	770	86.5	88.59	104.91	0.3089	0.3163	0.3746	0.0				

see similar files: <http://farbe.li.tu-berlin.de/CE31/CE31.HTM>  
 technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>



TUB-test chart CE31; CIE ( $x_{10}, y_{10}$ ) and chromaticities ( $a_{i,10}, b_{i,10}$ ) input: w/rgb/cmyk -> rgb  
 Ostwald optimal colours for illuminant Q00; diagram for illuminant Q00,  $Y_{w,10}=88,6$

TUB registration: 20170801-CE31/CE31LONA.TXT / PS  
 application for measurement of offset print output  
 TUB material: code=rh4ta