

see similar files: <http://farbe.li-tu-berlin.de/CEX5/CEX5.HTM>
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Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for D65, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$														
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{1,10}$	$B_{1,10}$	$C_{AB,1,10}$	$a_{1,10}$	$b_{1,10}$	$h_{xy,1,10}$	λ_d	i_c, λ_c	Code			
0	405	31	556	52.33	-52.91	-39.71	66.16	0.2111	-0.7327	216.8	15 476	37 585	Cm	
6	435	31	557	53.26	-56.05	-18.94	59.17	0.1946	-0.5715	198.6	16 480	44 621		
10	450	31	559	53.56	-58.87	13.42	60.38	0.1759	-0.3289	167.1	18 492	-1 492c		
11	460	32	562	54.81	-58.9	22.73	63.14	0.1857	-0.2632	158.8	19 498	-1 498c		
12	465	33	565	56.0	-58.53	31.19	66.32	0.1975	-0.2064	151.9	21 506	-1 506c		
14	470	34	570	57.89	-55.44	44.41	71.03	0.2325	-0.1223	141.3	24 522	-1 522c	Gm	
15	475	35	579	63.11	-49.55	53.89	73.21	0.3015	-0.0876	132.5	26 534	-1 534c		
16	480	41	606	74.33	-26.68	68.78	73.78	0.472	-0.059	111.2	30 550	-1 550c		
16	485	-1	484c	83.34	1.49	78.45	78.47	0.6227	-0.0526	88.9	32 560	10 454	max	
18	490	-1	490c	80.55	7.16	78.94	79.26	0.6511	-0.0372	84.8	32 562	11 459		
19	495	-1	495c	78.81	10.57	78.13	78.84	0.6692	-0.0326	82.2	32 563	12 461		
19	500	-1	499c	78.81	10.57	78.13	78.84	0.6692	-0.0326	82.2	32 563	12 461		
22	510	-1	510c	71.94	22.69	72.45	75.92	0.7417	-0.0263	72.6	33 566	13 466		
23	520	-1	519c	69.1	27.09	69.69	74.77	0.7724	-0.0258	68.7	33 568	13 468	Ym	
26	530	-1	530c	59.04	39.99	59.35	71.56	0.8865	-0.0271	56.0	34 573	14 472		
27	540	-1	539c	55.35	43.74	55.46	70.63	0.9316	-0.0284	51.7	35 576	14 473		
28	545	-1	544c	51.58	47.01	51.45	69.7	0.9801	-0.0302	47.5	35 578	14 474		
29	550	-1	549c	47.76	49.72	47.38	68.68	1.0319	-0.0324	43.6	36 580	15 475		
31	555	-1	555c	40.2	53.05	39.28	66.01	1.1433	-0.0384	36.5	37 586	15 476		
32	560	10	451	38.17	58.81	-13.05	60.25	1.2318	-0.566	347.4	-1 491c	18 491		
31	556	0	405	47.66	52.92	39.71	66.16	1.0597	-0.0958	36.8	37 585	15 476	Rm	
31	557	6	435	46.73	56.05	18.94	59.16	1.0952	-0.267	18.6	44 621	16 480		
31	559	10	450	46.43	58.86	-13.42	60.37	1.1227	-0.5448	347.1	-1 492c	18 492		
32	562	11	460	45.18	58.89	-22.73	63.12	1.1369	-0.6304	338.8	-1 498c	19 498		
33	565	12	465	43.99	58.51	-31.18	66.31	1.1476	-0.7128	331.9	-1 506c	21 506		
34	570	14	470	42.1	55.42	-44.39	71.01	1.142	-0.8509	321.3	-1 522c	24 522	Mm	
35	579	15	475	36.88	49.54	-53.87	73.19	1.1529	-1.0135	312.5	-1 534c	26 534		
41	606	16	480	25.66	26.67	-68.75	73.74	1.0313	-1.5009	291.2	-1 550c	30 550		
-1	484c	16	485	16.65	-1.49	-78.4	78.42	0.5796	-2.3126	268.9	10 454	32 560	min	
-1	490c	18	490	19.44	-7.16	-78.89	79.22	0.4682	-2.0519	264.8	11 459	32 562		
-1	495c	19	495	21.18	-10.56	-78.09	78.8	0.4161	-1.9035	262.2	12 461	32 563		
-1	499c	19	500	21.18	-10.56	-78.09	78.8	0.4161	-1.9035	262.2	12 461	32 563		
-1	510c	22	510	28.05	-22.68	-72.43	75.9	0.2921	-1.4619	252.6	13 466	33 566		
-1	519c	23	520	30.89	-27.08	-69.67	74.75	0.2648	-1.3312	248.7	13 468	33 568	Bm	
-1	530c	26	530	40.95	-39.98	-59.33	71.55	0.225	-1.0087	236.0	14 472	34 573		
-1	539c	27	540	44.64	-43.73	-55.45	70.62	0.2237	-0.926	231.7	14 473	35 576		
-1	544c	28	545	48.41	-47.01	-51.45	69.69	0.2271	-0.8543	227.5	14 474	35 578		
-1	549c	29	550	52.23	-49.72	-47.37	68.67	0.2348	-0.792	223.6	15 475	36 580		
-1	555c	31	555	59.79	-53.04	-39.27	66.0	0.2607	-0.6919	216.5	15 476	37 586		
10	451	32	560	61.82	-58.82	13.05	60.26	0.2349	-0.3447	167.4	18 491	-1 491c		
W0	380	770	100.0	0.0	0.0	0.0	0.0	0.6155	-0.4292	0.0	$B_c=1,000$			
N0	380	770	4.0	0.0	0.0	0.0	0.0	0.6155	-0.4292	0.0	$x_c=0,110$			

CEX50-7N

TUB-test chart CEX5; Hue circle of the *Ostwald* optimal colours with Y values, $Y_{N,10}=0,0$, $Y_{W,10}=100$
Data: $YA_1B_1C_{AB,1}h_{AB,1}$ and $YA_2B_2C_{AB,2}h_{AB,2}$ as table with different wavelength, D65-10

Ostwald optimal colours (o), maximum (m) C _{AB,10} for D65, Y _{N,10} =0, Y _{W,10} =100, Y _m =520_770														
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀	A _{2,10}	B _{2,10}	C _{AB,2,10}	a _{2,10}	b _{2,10}	h _{xy,2,10}	λ _d	i _c , λ _c	Code			
0 405	31 556	52.33	-52.91	-31.77	61.72	0.2111	-0.7327	210.9	15 476	37 585	Cm			
6 435	31 557	53.26	-56.05	-15.15	58.06	0.1946	-0.5715	195.1	16 480	44 621				
10 450	31 559	53.56	-58.87	10.74	59.84	0.1759	-0.3289	169.6	18 492	-1 492c				
11 460	32 562	54.81	-58.9	18.19	61.65	0.1857	-0.2632	162.8	19 498	-1 498c				
12 465	33 565	56.0	-58.53	24.95	63.63	0.1975	-0.2064	156.9	21 506	-1 506c				
14 470	34 570	57.89	-55.44	35.53	65.85	0.2325	-0.1223	147.3	24 522	-1 522c	Gm			
15 475	35 579	63.11	-49.55	43.11	65.68	0.3015	-0.0876	138.9	26 534	-1 534c				
16 480	41 606	74.33	-26.68	55.03	61.16	0.472	-0.059	115.8	30 550	-1 550c				
16 485	-1 484c	83.34	1.49	62.76	62.78	0.6227	-0.0526	88.6	32 560	10 454	max			
18 490	-1 490c	80.55	7.16	63.15	63.55	0.6511	-0.0372	83.5	32 562	11 459				
19 495	-1 495c	78.81	10.57	62.5	63.39	0.6692	-0.0326	80.4	32 563	12 461				
19 500	-1 499c	78.81	10.57	62.5	63.39	0.6692	-0.0326	80.4	32 563	12 461				
22 510	-1 510c	71.94	22.69	57.96	62.25	0.7417	-0.0263	68.6	33 566	13 466				
23 520	-1 519c	69.1	27.09	55.75	61.99	0.7724	-0.0258	64.0	33 568	13 468	Ym			
26 530	-1 530c	59.04	39.99	47.48	62.08	0.8865	-0.0271	49.8	34 573	14 472				
27 540	-1 539c	55.35	43.74	44.36	62.3	0.9316	-0.0284	45.4	35 576	14 473				
28 545	-1 544c	51.58	47.01	41.16	62.49	0.9801	-0.0302	41.2	35 578	14 474				
29 550	-1 549c	47.76	49.72	37.9	62.52	1.0319	-0.0324	37.3	36 580	15 475				
31 555	-1 555c	40.2	53.05	31.42	61.66	1.1433	-0.0384	30.6	37 586	15 476				
32 560	10 451	38.17	58.81	-10.44	59.73	1.2318	-0.566	349.9	-1 491c	18 491				
31 556	0 405	47.66	52.92	31.77	61.72	1.0597	-0.0958	30.9	37 585	15 476	Rm			
31 557	6 435	46.73	56.05	15.15	58.06	1.0952	-0.267	15.1	44 621	16 480				
31 559	10 450	46.43	58.86	-10.74	59.83	1.1227	-0.5448	349.6	-1 492c	18 492				
32 562	11 460	45.18	58.89	-18.18	61.63	1.1369	-0.6304	342.8	-1 498c	19 498				
33 565	12 465	43.99	58.51	-24.95	63.61	1.1476	-0.7128	336.9	-1 506c	21 506				
34 570	14 470	42.1	55.42	-35.51	65.82	1.142	-0.8509	327.3	-1 522c	24 522	Mm			
35 579	15 475	36.88	49.54	-43.1	65.66	1.1529	-1.0135	318.9	-1 534c	26 534				
41 606	16 480	25.66	26.67	-55.0	61.13	1.0313	-1.5009	295.8	-1 550c	30 550				
-1 484c	16 485	16.65	-1.49	-62.72	62.74	0.5796	-2.3126	268.6	10 454	32 560	min			
-1 490c	18 490	19.44	-7.16	-63.11	63.52	0.4682	-2.0519	263.5	11 459	32 562				
-1 495c	19 495	21.18	-10.56	-62.47	63.36	0.4161	-1.9035	260.4	12 461	32 563				
-1 499c	19 500	21.18	-10.56	-62.47	63.36	0.4161	-1.9035	260.4	12 461	32 563				
-1 510c	22 510	28.05	-22.68	-57.94	62.22	0.2921	-1.4619	248.6	13 466	33 566				
-1 519c	23 520	30.89	-27.08	-55.73	61.97	0.2648	-1.3312	244.0	13 468	33 568	Bm			
-1 530c	26 530	40.95	-39.98	-47.47	62.06	0.225	-1.0087	229.8	14 472	34 573				
-1 539c	27 540	44.64	-43.73	-44.36	62.29	0.2237	-0.926	225.4	14 473	35 576				
-1 544c	28 545	48.41	-47.01	-41.16	62.48	0.2271	-0.8543	221.2	14 474	35 578				
-1 549c	29 550	52.23	-49.72	-37.9	62.52	0.2348	-0.792	217.3	15 475	36 580				
-1 555c	31 555	59.79	-53.04	-31.42	61.65	0.2607	-0.6919	210.6	15 476	37 586				
10 451	32 560	61.82	-58.82	10.44	59.74	0.2349	-0.3447	169.9	18 491	-1 491c				
W0 380	770	100.0	0.0	0.0	0.0	0.6155	-0.3433	0.0	B _c =0,800					
N0 380	770	4.0	0.0	0.0	0.0	0.6155	-0.3433	0.0	x _c =0,110					

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

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for D50, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$													
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{1,10}$	$B_{1,10}$	$C_{AB,1,10}$	$a_{1,10}$	$b_{1,10}$	$h_{xy,1,10}$	λ_d	i_c, λ_c	Code		
1 405	31 559	52.22	-56.54	-29.7	63.86	0.228	-0.553	207.7	15 479	37 589	Cm		
7 435	32 561	52.17	-58.81	-12.1	60.04	0.2102	-0.4183	191.6	16 484	58 693			
10 450	32 562	52.53	-60.12	6.98	60.52	0.2033	-0.2723	173.3	18 493	-1 493c			
12 460	32 564	53.42	-59.95	19.58	63.07	0.2122	-0.1789	161.9	20 503	-1 503c			
13 465	33 566	54.02	-59.1	25.02	64.18	0.2235	-0.1402	157.0	22 511	-1 511c			
14 470	34 570	55.74	-57.62	30.52	65.21	0.2476	-0.1064	152.0	24 521	-1 521c	Gm		
15 475	35 576	59.22	-54.06	36.57	65.27	0.2959	-0.0785	145.9	26 531	-1 531c			
16 480	38 590	66.38	-44.05	44.79	62.82	0.3956	-0.0556	134.5	28 543	-1 543c			
17 485	-1 485c	83.6	4.94	60.55	60.75	0.6847	-0.0358	85.3	32 563	11 458	max		
18 490	-1 490c	82.31	7.7	60.75	61.24	0.6985	-0.0303	82.7	32 564	12 460			
19 495	-1 495c	80.77	10.89	60.43	61.41	0.715	-0.0262	79.7	33 565	12 462			
20 500	-1 500c	78.97	14.47	59.65	61.38	0.7344	-0.0233	76.3	33 566	12 464			
21 510	-1 509c	76.89	18.4	58.46	61.29	0.7568	-0.0214	72.5	33 567	13 466			
24 520	-1 520c	68.91	31.59	52.77	61.5	0.8445	-0.0192	59.0	34 571	14 471	Ym		
25 530	-1 529c	65.66	36.14	50.27	61.91	0.8813	-0.0193	54.2	34 573	14 473			
28 540	-1 540c	54.85	48.27	41.68	63.78	1.0131	-0.0216	40.8	35 579	15 476			
29 545	-1 545c	51.04	51.41	38.6	64.29	1.064	-0.023	36.9	36 581	15 477			
29 550	-1 549c	51.04	51.41	38.6	64.29	1.064	-0.023	36.9	36 581	15 477			
31 555	-1 555c	43.4	55.63	32.39	64.38	1.1738	-0.027	30.2	37 587	15 479			
32 560	2 411	39.71	56.82	27.72	63.22	1.2335	-0.0463	26.0	38 591	16 480			
31 559	1 405	47.77	56.54	29.7	63.87	1.1345	-0.0768	27.7	37 589	15 479	Rm		
32 561	7 435	47.82	58.8	12.1	60.04	1.153	-0.2243	11.6	58 693	16 484			
32 562	10 450	47.46	60.11	-6.98	60.52	1.1677	-0.3844	353.3	-1 493c	18 493			
32 564	12 460	46.57	59.94	-19.57	63.06	1.1759	-0.4937	341.9	-1 503c	20 503			
33 566	13 465	45.97	59.08	-25.02	64.16	1.1751	-0.5432	337.0	-1 511c	22 511			
34 570	14 470	44.25	57.61	-30.52	65.19	1.1818	-0.6014	332.0	-1 521c	24 521	Mm		
35 576	15 475	40.77	54.04	-36.56	65.25	1.1913	-0.6842	325.9	-1 531c	26 531			
38 590	16 480	33.61	44.04	-44.78	62.8	1.1851	-0.8584	314.5	-1 543c	28 543			
-1 485c	17 485	16.39	-4.94	-60.52	60.72	0.5404	-1.8023	265.3	11 458	32 563	min		
-1 490c	18 490	17.68	-7.7	-60.73	61.21	0.4869	-1.699	262.7	12 460	32 564			
-1 495c	19 495	19.22	-10.88	-60.41	61.38	0.4346	-1.5826	259.7	12 462	33 565			
-1 500c	20 500	21.02	-14.47	-59.63	61.36	0.3857	-1.4599	256.3	12 464	33 566			
-1 509c	21 510	23.1	-18.4	-58.44	61.27	0.3425	-1.3372	252.5	13 466	33 567			
-1 520c	24 520	31.08	-31.58	-52.76	61.49	0.2547	-1.0044	239.0	14 471	34 571	Bm		
-1 529c	25 530	34.33	-36.13	-50.26	61.9	0.2401	-0.9111	234.2	14 473	34 573			
-1 540c	28 540	45.14	-48.27	-41.67	63.77	0.2333	-0.6948	220.8	15 476	35 579			
-1 545c	29 545	48.95	-51.41	-38.6	64.28	0.241	-0.6409	216.9	15 477	36 581			
-1 549c	29 550	48.95	-51.41	-38.6	64.28	0.241	-0.6409	216.9	15 477	36 581			
-1 555c	31 555	56.59	-55.63	-32.39	64.38	0.2679	-0.5545	210.2	15 479	37 587			
2 411	32 560	60.28	-56.82	-27.72	63.22	0.284	-0.5094	206.0	16 480	38 591			
W0 380	770	99.99	0.0	0.0	0.0	0.6611	-0.3255	0.0	$B_c=1,000$				
N0 380	770	3.99	0.0	0.0	0.0	0.6611	-0.3255	0.0	$x_c=0,110$				

CEX50-7N

TUB-test chart CEX5; Hue circle of the *Ostwald* optimal colours with Y values, $Y_{N,10}=0,0$, $Y_{W,10}=100$
Data: $YA_1B_1C_{AB,1}h_{AB,1}$ and $YA_2B_2C_{AB,2}h_{AB,2}$ as table with different wavelength, D50-10

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Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for D50, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$													
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{2,10}$	$B_{2,10}$	$C_{AB,2,10}$	$a_{2,10}$	$b_{2,10}$	$h_{xy,2,10}$	λ_d	i_c, λ_c	Code		
1 405	31 559	52.22	-56.54	-29.7	63.86	0.228	-0.553	207.7	15 479	37 589	Cm		
7 435	32 561	52.17	-58.81	-12.1	60.04	0.2102	-0.4183	191.6	16 484	58 693			
10 450	32 562	52.53	-60.12	6.98	60.52	0.2033	-0.2723	173.3	18 493	-1 493c			
12 460	32 564	53.42	-59.95	19.58	63.07	0.2122	-0.1789	161.9	20 503	-1 503c			
13 465	33 566	54.02	-59.1	25.02	64.18	0.2235	-0.1402	157.0	22 511	-1 511c			
14 470	34 570	55.74	-57.62	30.52	65.21	0.2476	-0.1064	152.0	24 521	-1 521c	Gm		
15 475	35 576	59.22	-54.06	36.57	65.27	0.2959	-0.0785	145.9	26 531	-1 531c			
16 480	38 590	66.38	-44.05	44.79	62.82	0.3956	-0.0556	134.5	28 543	-1 543c			
17 485	-1 485c	83.6	4.94	60.55	60.75	0.6847	-0.0358	85.3	32 563	11 458	max		
18 490	-1 490c	82.31	7.7	60.75	61.24	0.6985	-0.0303	82.7	32 564	12 460			
19 495	-1 495c	80.77	10.89	60.43	61.41	0.715	-0.0262	79.7	33 565	12 462			
20 500	-1 500c	78.97	14.47	59.65	61.38	0.7344	-0.0233	76.3	33 566	12 464			
21 510	-1 509c	76.89	18.4	58.46	61.29	0.7568	-0.0214	72.5	33 567	13 466			
24 520	-1 520c	68.91	31.59	52.77	61.5	0.8445	-0.0192	59.0	34 571	14 471	Ym		
25 530	-1 529c	65.66	36.14	50.27	61.91	0.8813	-0.0193	54.2	34 573	14 473			
28 540	-1 540c	54.85	48.27	41.68	63.78	1.0131	-0.0216	40.8	35 579	15 476			
29 545	-1 545c	51.04	51.41	38.6	64.29	1.064	-0.023	36.9	36 581	15 477			
29 550	-1 549c	51.04	51.41	38.6	64.29	1.064	-0.023	36.9	36 581	15 477			
31 555	-1 555c	43.4	55.63	32.39	64.38	1.1738	-0.027	30.2	37 587	15 479			
32 560	2 411	39.71	56.82	27.72	63.22	1.2335	-0.0463	26.0	38 591	16 480			
31 559	1 405	47.77	56.54	29.7	63.87	1.1345	-0.0768	27.7	37 589	15 479	Rm		
32 561	7 435	47.82	58.8	12.1	60.04	1.153	-0.2243	11.6	58 693	16 484			
32 562	10 450	47.46	60.11	-6.98	60.52	1.1677	-0.3844	353.3	-1 493c	18 493			
32 564	12 460	46.57	59.94	-19.57	63.06	1.1759	-0.4937	341.9	-1 503c	20 503			
33 566	13 465	45.97	59.08	-25.02	64.16	1.1751	-0.5432	337.0	-1 511c	22 511			
34 570	14 470	44.25	57.61	-30.52	65.19	1.1818	-0.6014	332.0	-1 521c	24 521	Mm		
35 576	15 475	40.77	54.04	-36.56	65.25	1.1913	-0.6842	325.9	-1 531c	26 531			
38 590	16 480	33.61	44.04	-44.78	62.8	1.1851	-0.8584	314.5	-1 543c	28 543			
-1 485c	17 485	16.39	-4.94	-60.52	60.72	0.5404	-1.8023	265.3	11 458	32 563	min		
-1 490c	18 490	17.68	-7.7	-60.73	61.21	0.4869	-1.699	262.7	12 460	32 564			
-1 495c	19 495	19.22	-10.88	-60.41	61.38	0.4346	-1.5826	259.7	12 462	33 565			
-1 500c	20 500	21.02	-14.47	-59.63	61.36	0.3857	-1.4599	256.3	12 464	33 566			
-1 509c	21 510	23.1	-18.4	-58.44	61.27	0.3425	-1.3372	252.5	13 466	33 567			
-1 520c	24 520	31.08	-31.58	-52.76	61.49	0.2547	-1.0044	239.0	14 471	34 571	Bm		
-1 529c	25 530	34.33	-36.13	-50.26	61.9	0.2401	-0.9111	234.2	14 473	34 573			
-1 540c	28 540	45.14	-48.27	-41.67	63.77	0.2333	-0.6948	220.8	15 476	35 579			
-1 545c	29 545	48.95	-51.41	-38.6	64.28	0.241	-0.6409	216.9	15 477	36 581			
-1 549c	29 550	48.95	-51.41	-38.6	64.28	0.241	-0.6409	216.9	15 477	36 581			
-1 555c	31 555	56.59	-55.63	-32.39	64.38	0.2679	-0.5545	210.2	15 479	37 587			
2 411	32 560	60.28	-56.82	-27.72	63.22	0.284	-0.5094	206.0	16 480	38 591			
W0 380	770	99.99	0.0	0.0	0.0	0.6611	-0.3255	0.0	$B_c=1,000$				
N0 380	770	3.99	0.0	0.0	0.0	0.6611	-0.3255	0.0	$x_c=0,110$				

CEX51-7N

TUB registration: 202011

see similar files: <http://farbe.li-tu-berlin.de/CEX5/CEX5.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) C _{AB,10} for P40, Y _{N,10} =0, Y _{W,10} =100, Y _m =520_770												
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀	A _{1,10}	B _{1,10}	C _{AB,1,10}	a _{1,10}	b _{1,10}	h _{xy,1,10}	λ _d	i _c , λ _c	Code	
0 405	32 563	50.84	-58.77	-24.85	63.81	0.262	-0.4532	202.9	16 481	38 591	Cm	
7 435	32 564	51.21	-60.96	-8.94	61.61	0.2483	-0.3276	188.3	17 487	-1 487c		
10 450	33 565	50.96	-61.77	4.82	61.95	0.2397	-0.2198	175.5	19 495	-1 495c		
12 460	33 567	51.74	-61.42	14.12	63.02	0.2496	-0.1485	167.0	21 505	-1 505c		
12 465	33 568	53.16	-61.48	15.04	63.29	0.2619	-0.1445	166.2	21 506	-1 506c		
14 470	34 571	53.98	-59.53	22.56	63.66	0.2833	-0.0905	159.2	24 521	-1 521c	Gm	
15 475	35 576	56.62	-57.11	26.78	63.08	0.321	-0.0684	154.8	26 531	-1 531c		
16 480	37 585	62.18	-50.83	32.29	60.22	0.3975	-0.0499	147.5	28 541	-1 541c		
17 485	42 611	75.11	-24.97	42.07	48.92	0.5915	-0.0336	120.6	31 557	-1 557c		
17 490	-1 489c	84.95	4.69	48.41	48.64	0.7465	-0.0297	84.4	33 566	11 458	max	
19 495	-1 495c	82.52	10.18	48.73	49.78	0.7738	-0.0215	78.1	33 568	12 463		
20 500	-1 500c	80.95	13.54	48.31	50.17	0.7914	-0.0189	74.3	33 569	13 465		
22 510	-1 510c	76.99	21.42	46.51	51.21	0.8358	-0.016	65.2	34 571	13 469		
23 520	-1 519c	74.56	25.84	45.19	52.06	0.8631	-0.0152	60.2	34 572	14 471	Ym	
25 530	-1 529c	68.91	35.03	41.85	54.58	0.9278	-0.0147	50.0	35 575	14 474		
28 540	-1 540c	58.8	47.96	35.53	59.69	1.0507	-0.016	36.5	36 581	15 477		
28 545	-1 544c	58.8	47.96	35.53	59.69	1.0507	-0.016	36.5	36 581	15 477		
30 550	-1 550c	51.42	54.55	30.8	62.65	1.1488	-0.018	29.4	37 585	15 479		
31 555	-1 555c	47.62	56.87	28.36	63.56	1.2021	-0.0194	26.5	37 587	16 480		
31 560	-1 559c	47.62	56.87	28.36	63.56	1.2021	-0.0194	26.5	37 587	16 480		
32 563	0 405	49.15	58.77	24.85	63.81	1.2028	-0.0554	22.9	38 591	16 481	Rm	
32 564	7 435	48.78	60.96	8.94	61.61	1.2243	-0.1843	8.3	-1 487c	17 487		
33 565	10 450	49.03	61.76	-4.82	61.95	1.2283	-0.297	355.5	-1 495c	19 495		
33 567	12 460	48.25	61.41	-14.12	63.01	1.2335	-0.3747	347.0	-1 505c	21 505		
33 568	12 465	46.83	61.47	-15.03	63.28	1.2495	-0.3861	346.2	-1 506c	21 506		
34 571	14 470	46.01	59.52	-22.56	63.65	1.2418	-0.4538	339.2	-1 521c	24 521	Mm	
35 576	15 475	43.37	57.1	-26.78	63.07	1.2511	-0.5047	334.8	-1 531c	26 531		
37 585	16 480	37.81	50.81	-32.28	60.2	1.2619	-0.5991	327.5	-1 541c	28 541		
42 611	17 485	24.88	24.96	-42.06	48.91	1.1257	-0.9338	300.6	-1 557c	31 557		
-1 489c	17 490	15.04	-4.68	-48.39	48.62	0.5998	-1.5442	264.4	11 458	33 566	min	
-1 495c	19 495	17.47	-10.17	-48.71	49.76	0.4915	-1.3725	258.1	12 463	33 568		
-1 500c	20 500	19.04	-13.54	-48.3	50.16	0.4401	-1.2721	254.3	13 465	33 569		
-1 510c	22 510	23.0	-21.42	-46.5	51.2	0.352	-1.0663	245.2	13 469	34 571		
-1 519c	23 520	25.43	-25.84	-45.18	52.05	0.318	-0.9683	240.2	14 471	34 572	Bm	
-1 529c	25 530	31.08	-35.03	-41.84	54.57	0.2737	-0.7961	230.0	14 474	35 575		
-1 540c	28 540	41.19	-47.96	-35.53	59.68	0.2588	-0.6027	216.5	15 477	36 581		
-1 544c	28 545	41.19	-47.96	-35.53	59.68	0.2588	-0.6027	216.5	15 477	36 581		
-1 550c	30 550	48.57	-54.55	-30.8	62.64	0.2753	-0.5114	209.4	15 479	37 585		
-1 555c	31 555	52.37	-56.87	-28.36	63.55	0.29	-0.4743	206.5	16 480	37 587		
-1 559c	31 560	52.37	-56.87	-28.36	63.55	0.29	-0.4743	206.5	16 480	37 587		
W0 380	770	100.0	0.0	0.0	0.0	0.7245	-0.2577	0.0	B _c =1,000			
N0 380	770	4.0	0.0	0.0	0.0	0.7245	-0.2577	0.0	x _c =0,110			

CEX50-7N

TUB-test chart CEX5; Hue circle of the *Ostwald* optimal colours with Y values, $Y_{N,10}=0,0$, $Y_{W,10}=100$
Data: $YA_1B_1C_{AB,1}h_{AB,1}$ and $YA_2B_2C_{AB,2}h_{AB,2}$ as table with different wavelength, P40-10

1-001200-F0

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for P40, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$														
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{2,10}$	$B_{2,10}$	$C_{AB,2,10}$	$a_{2,10}$	$b_{2,10}$	$h_{xy,2,10}$	λ_d	i_c, λ_c	Code			
0	405	32 563	50.84	-58.77	-32.31	67.07	0.262	-0.4532	208.8	16 481	38 591	Cm		
7	435	32 564	51.21	-60.96	-11.63	62.06	0.2483	-0.3276	190.8	17 487	-1 487c			
10	450	33 565	50.96	-61.77	6.27	62.08	0.2397	-0.2198	174.1	19 495	-1 495c			
12	460	33 567	51.74	-61.42	18.36	64.1	0.2496	-0.1485	163.3	21 505	-1 505c			
12	465	33 568	53.16	-61.48	19.55	64.51	0.2619	-0.1445	162.3	21 506	-1 506c			
14	470	34 571	53.98	-59.53	29.33	66.36	0.2833	-0.0905	153.7	24 521	-1 521c	Gm		
15	475	35 576	56.62	-57.11	34.82	66.89	0.321	-0.0684	148.6	26 531	-1 531c			
16	480	37 585	62.18	-50.83	41.98	65.92	0.3975	-0.0499	140.4	28 541	-1 541c			
17	485	42 611	75.11	-24.97	54.7	60.13	0.5915	-0.0336	114.5	31 557	-1 557c			
17	490	-1 489c	84.95	4.69	62.93	63.11	0.7465	-0.0297	85.7	33 566	11 458	max		
19	495	-1 495c	82.52	10.18	63.35	64.16	0.7738	-0.0215	80.8	33 568	12 463			
20	500	-1 500c	80.95	13.54	62.81	64.25	0.7914	-0.0189	77.8	33 569	13 465			
22	510	-1 510c	76.99	21.42	60.47	64.15	0.8358	-0.016	70.4	34 571	13 469			
23	520	-1 519c	74.56	25.84	58.75	64.18	0.8631	-0.0152	66.2	34 572	14 471	Ym		
25	530	-1 529c	68.91	35.03	54.41	64.71	0.9278	-0.0147	57.2	35 575	14 474			
28	540	-1 540c	58.8	47.96	46.19	66.59	1.0507	-0.016	43.9	36 581	15 477			
28	545	-1 544c	58.8	47.96	46.19	66.59	1.0507	-0.016	43.9	36 581	15 477			
30	550	-1 550c	51.42	54.55	40.05	67.67	1.1488	-0.018	36.2	37 585	15 479			
31	555	-1 555c	47.62	56.87	36.87	67.78	1.2021	-0.0194	32.9	37 587	16 480			
31	560	-1 559c	47.62	56.87	36.87	67.78	1.2021	-0.0194	32.9	37 587	16 480			
32	563	0	405	58.77	32.31	67.07	1.2028	-0.0554	28.8	38 591	16 481	Rm		
32	564	7	435	48.78	60.96	11.63	1.2243	-0.1843	10.8	-1 487c	17 487			
33	565	10	450	49.03	61.76	-6.27	1.2283	-0.297	354.1	-1 495c	19 495			
33	567	12	460	48.25	61.41	-18.35	1.2335	-0.3747	343.3	-1 505c	21 505			
33	568	12	465	46.83	61.47	-19.55	1.2495	-0.3861	342.3	-1 506c	21 506			
34	571	14	470	46.01	59.52	-29.33	1.2418	-0.4538	333.7	-1 521c	24 521	Mm		
35	576	15	475	43.37	57.1	-34.81	1.2511	-0.5047	328.6	-1 531c	26 531			
37	585	16	480	37.81	50.81	-41.97	1.2619	-0.5991	320.4	-1 541c	28 541			
42	611	17	485	24.88	24.96	-54.68	60.11	1.1257	-0.9338	294.5	-1 557c	31 557		
-1 489c	17	490	15.04	-4.68	-62.91	63.08	0.5998	-1.5442	265.7	11 458	33 566	min		
-1 495c	19	495	17.47	-10.17	-63.32	64.14	0.4915	-1.3725	260.8	12 463	33 568			
-1 500c	20	500	19.04	-13.54	-62.79	64.23	0.4401	-1.2721	257.8	13 465	33 569			
-1 510c	22	510	23.0	-21.42	-60.46	64.14	0.352	-1.0663	250.4	13 469	34 571			
-1 519c	23	520	25.43	-25.84	-58.74	64.17	0.318	-0.9683	246.2	14 471	34 572	Bm		
-1 529c	25	530	31.08	-35.03	-54.4	64.7	0.2737	-0.7961	237.2	14 474	35 575			
-1 540c	28	540	41.19	-47.96	-46.19	66.58	0.2588	-0.6027	223.9	15 477	36 581			
-1 544c	28	545	41.19	-47.96	-46.19	66.58	0.2588	-0.6027	223.9	15 477	36 581			
-1 550c	30	550	48.57	-54.55	-40.05	67.67	0.2753	-0.5114	216.2	15 479	37 585			
-1 555c	31	555	52.37	-56.87	-36.87	67.78	0.29	-0.4743	212.9	16 480	37 587			
-1 559c	31	560	52.37	-56.87	-36.87	67.78	0.29	-0.4743	212.9	16 480	37 587			
W0	380	770	100.0	0.0	0.0	0.0	0.7245	-0.335	0.0	$B_c=1,300$				
N0	380	770	4.0	0.0	0.0	0.0	0.7245	-0.335	0.0	$x_c=0,110$				

see similar files: <http://farbe.li-tu-berlin.de/CEX5/CEX5.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for A00, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$													
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{1,10}$	$B_{1,10}$	$C_{AB,1,10}$	$a_{1,10}$	$b_{1,10}$	$h_{xy,1,10}$	λ_d	i_c, λ_c	Code		
1 405	34 570	48.47	-62.55	-14.29	64.16	0.324	-0.2587	192.8	17 487	39 597	Cm		
7 435	34 570	48.7	-63.37	-7.37	63.79	0.3198	-0.2012	186.6	18 491	47 637			
9 450	34 571	49.04	-63.68	-2.55	63.73	0.3209	-0.1615	182.2	19 495	-1 495c			
12 460	34 572	49.34	-63.42	5.05	63.62	0.3261	-0.0998	175.4	21 505	-1 505c			
13 465	34 573	49.86	-63.0	7.49	63.44	0.3349	-0.0806	173.2	22 512	-1 512c			
14 470	34 574	50.84	-62.34	9.8	63.11	0.3498	-0.0636	171.0	24 520	-1 520c	Gm		
15 475	35 576	51.89	-61.04	11.77	62.17	0.3697	-0.05	169.0	25 528	-1 528c			
16 480	36 581	54.48	-58.83	13.94	60.46	0.4083	-0.0384	166.6	27 537	-1 537c			
17 485	37 588	59.75	-53.25	16.77	55.83	0.4837	-0.0284	162.5	29 547	-1 547c			
18 490	41 609	72.01	-31.92	21.83	38.68	0.6629	-0.0194	145.6	32 561	-1 561c			
19 495	-1 495c	85.22	8.8	27.06	28.46	0.8816	-0.0137	71.9	34 573	13 465	max		
20 500	-1 500c	84.06	11.62	27.09	29.48	0.8956	-0.0118	66.7	34 573	13 468			
21 510	-1 509c	82.67	14.88	26.93	30.77	0.9123	-0.0104	61.0	34 574	14 470			
24 520	-1 520c	76.82	27.13	25.46	37.21	0.9815	-0.0081	43.1	35 577	15 476	Ym		
25 530	-1 529c	74.33	31.75	24.69	40.22	1.0112	-0.0078	37.8	35 578	15 477			
27 540	-1 539c	68.55	41.24	22.79	47.12	1.0809	-0.0077	28.9	36 581	16 480			
29 545	-1 545c	61.89	50.2	20.5	54.23	1.1647	-0.0082	22.2	37 585	16 483			
30 550	-1 550c	58.32	54.12	19.25	57.44	1.2115	-0.0087	19.5	37 587	16 484			
31 555	-1 555c	54.59	57.47	17.94	60.21	1.2614	-0.0092	17.3	37 589	17 485			
32 560	-1 560c	50.77	60.11	16.6	62.36	1.3138	-0.0099	15.4	38 592	17 486			
34 570	1 405	51.52	62.55	14.29	64.16	1.3259	-0.0298	12.8	39 597	17 487	Rm		
34 570	7 435	51.29	63.36	7.37	63.79	1.3344	-0.0832	6.6	47 637	18 491			
34 571	9 450	50.95	63.67	2.55	63.72	1.3401	-0.1207	2.2	-1 495c	19 495			
34 572	12 460	50.65	63.41	-5.05	63.61	1.341	-0.1806	355.4	-1 505c	21 505			
34 573	13 465	50.13	62.99	-7.49	63.43	1.3428	-0.2005	353.2	-1 512c	22 512			
34 574	14 470	49.15	62.33	-9.8	63.1	1.3475	-0.2205	351.0	-1 520c	24 520	Mm		
35 576	15 475	48.1	61.03	-11.76	62.16	1.3478	-0.2386	349.0	-1 528c	25 528			
36 581	16 480	45.51	58.82	-13.94	60.45	1.3573	-0.2632	346.6	-1 537c	27 537			
37 588	17 485	40.24	53.24	-16.77	55.82	1.3695	-0.3074	342.5	-1 547c	29 547			
41 609	18 490	27.98	31.92	-21.83	38.67	1.2965	-0.4528	325.6	-1 561c	32 561			
-1 495c	19 495	14.77	-8.8	-27.05	28.45	0.6019	-0.8734	251.9	13 465	34 573	min		
-1 500c	20 500	15.93	-11.62	-27.08	29.47	0.5484	-0.8209	246.7	13 468	34 573			
-1 509c	21 510	17.32	-14.88	-26.92	30.76	0.4966	-0.7624	241.0	14 470	34 574			
-1 520c	24 520	23.17	-27.13	-25.46	37.2	0.3718	-0.5802	223.1	15 476	35 577	Bm		
-1 529c	25 530	25.66	-31.75	-24.68	40.22	0.3454	-0.5254	217.8	15 477	35 578			
-1 539c	27 540	31.44	-41.24	-22.78	47.12	0.3157	-0.4306	208.9	16 480	36 581			
-1 545c	29 545	38.1	-50.2	-20.5	54.23	0.3132	-0.356	202.2	16 483	37 585			
-1 550c	30 550	41.67	-54.12	-19.25	57.44	0.3208	-0.3255	199.5	16 484	37 587			
-1 555c	31 555	45.4	-57.47	-17.94	60.21	0.3339	-0.2988	197.3	17 485	37 589			
-1 560c	32 560	49.22	-60.11	-16.6	62.36	0.3518	-0.2756	195.4	17 486	38 592			
W0 380	770	99.99	0.0	0.0	0.0	0.8403	-0.1407	0.0	$B_c=1,000$				
N0 380	770	3.99	0.0	0.0	0.0	0.8403	-0.1407	0.0	$x_c=0,110$				

CEX50-7N

TUB-test chart CEX5; Hue circle of the *Ostwald* optimal colours with Y values, $Y_{N,10}=0,0$, $Y_{W,10}=100$
Data: $YA_1B_1C_{AB,1}h_{AB,1}$ and $YA_2B_2C_{AB,2}h_{AB,2}$ as table with different wavelength, A00-10

1-001300-F0

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for A00, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$													
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{2,10}$	$B_{2,10}$	$C_{AB,2,10}$	$a_{2,10}$	$b_{2,10}$	$h_{xy,2,10}$	λ_d	i_c, λ_c	Code		
1 405	34 570	48.47	-62.55	-35.73	72.04	0.324	-0.2587	209.7	17 487	39 597	Cm		
7 435	34 570	48.7	-63.37	-18.42	65.99	0.3198	-0.2012	196.2	18 491	47 637			
9 450	34 571	49.04	-63.68	-6.38	64.0	0.3209	-0.1615	185.7	19 495	-1 495c			
12 460	34 572	49.34	-63.42	12.63	64.66	0.3261	-0.0998	168.7	21 505	-1 505c			
13 465	34 573	49.86	-63.0	18.74	65.72	0.3349	-0.0806	163.4	22 512	-1 512c			
14 470	34 574	50.84	-62.34	24.51	66.98	0.3498	-0.0636	158.5	24 520	-1 520c	Gm		
15 475	35 576	51.89	-61.04	29.42	67.76	0.3697	-0.05	154.2	25 528	-1 528c			
16 480	36 581	54.48	-58.83	34.85	68.39	0.4083	-0.0384	149.3	27 537	-1 537c			
17 485	37 588	59.75	-53.25	41.93	67.78	0.4837	-0.0284	141.7	29 547	-1 547c			
18 490	41 609	72.01	-31.92	54.59	63.24	0.6629	-0.0194	120.3	32 561	-1 561c			
19 495	-1 495c	85.22	8.8	67.65	68.23	0.8816	-0.0137	82.5	34 573	13 465	max		
20 500	-1 500c	84.06	11.62	67.73	68.72	0.8956	-0.0118	80.2	34 573	13 468			
21 510	-1 509c	82.67	14.88	67.33	68.96	0.9123	-0.0104	77.5	34 574	14 470			
24 520	-1 520c	76.82	27.13	63.65	69.2	0.9815	-0.0081	66.9	35 577	15 476	Ym		
25 530	-1 529c	74.33	31.75	61.72	69.41	1.0112	-0.0078	62.7	35 578	15 477			
27 540	-1 539c	68.55	41.24	56.97	70.33	1.0809	-0.0077	54.0	36 581	16 480			
29 545	-1 545c	61.89	50.2	51.26	71.75	1.1647	-0.0082	45.5	37 585	16 483			
30 550	-1 550c	58.32	54.12	48.13	72.43	1.2115	-0.0087	41.6	37 587	16 484			
31 555	-1 555c	54.59	57.47	44.86	72.91	1.2614	-0.0092	37.9	37 589	17 485			
32 560	-1 560c	50.77	60.11	41.5	73.04	1.3138	-0.0099	34.6	38 592	17 486			
34 570	1 405	51.52	62.55	35.73	72.03	1.3259	-0.0298	29.7	39 597	17 487	Rm		
34 570	7 435	51.29	63.36	18.42	65.99	1.3344	-0.0832	16.2	47 637	18 491			
34 571	9 450	50.95	63.67	6.38	63.99	1.3401	-0.1207	5.7	-1 495c	19 495			
34 572	12 460	50.65	63.41	-12.63	64.65	1.341	-0.1806	348.7	-1 505c	21 505			
34 573	13 465	50.13	62.99	-18.73	65.71	1.3428	-0.2005	343.4	-1 512c	22 512			
34 574	14 470	49.15	62.33	-24.5	66.97	1.3475	-0.2205	338.5	-1 520c	24 520	Mm		
35 576	15 475	48.1	61.03	-29.42	67.75	1.3478	-0.2386	334.2	-1 528c	25 528			
36 581	16 480	45.51	58.82	-34.85	68.37	1.3573	-0.2632	329.3	-1 537c	27 537			
37 588	17 485	40.24	53.24	-41.92	67.77	1.3695	-0.3074	321.7	-1 547c	29 547			
41 609	18 490	27.98	31.92	-54.58	63.23	1.2965	-0.4528	300.3	-1 561c	32 561			
-1 495c	19 495	14.77	-8.8	-67.64	68.21	0.6019	-0.8734	262.5	13 465	34 573	min		
-1 500c	20 500	15.93	-11.62	-67.72	68.71	0.5484	-0.8209	260.2	13 468	34 573			
-1 509c	21 510	17.32	-14.88	-67.32	68.95	0.4966	-0.7624	257.5	14 470	34 574			
-1 520c	24 520	23.17	-27.13	-63.65	69.19	0.3718	-0.5802	246.9	15 476	35 577	Bm		
-1 529c	25 530	25.66	-31.75	-61.72	69.41	0.3454	-0.5254	242.7	15 477	35 578			
-1 539c	27 540	31.44	-41.24	-56.97	70.33	0.3157	-0.4306	234.0	16 480	36 581			
-1 545c	29 545	38.1	-50.2	-51.26	71.75	0.3132	-0.356	225.5	16 483	37 585			
-1 550c	30 550	41.67	-54.12	-48.13	72.43	0.3208	-0.3255	221.6	16 484	37 587			
-1 555c	31 555	45.4	-57.47	-44.86	72.91	0.3339	-0.2988	217.9	17 485	37 589			
-1 560c	32 560	49.22	-60.11	-41.5	73.05	0.3518	-0.2756	214.6	17 486	38 592			
W0 380	770	99.99	0.0	0.0	0.0	0.8403	-0.3519	0.0	$B_c=2,500$				
N0 380	770	3.99	0.0	0.0	0.0	0.8403	-0.3519	0.0	$x_c=0,110$				

CEX51-7N

see similar files: <http://farbe.li-tu-berlin.de/CEX5/CEX5.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for E00, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$															
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{1,10}$	$B_{1,10}$	$C_{AB,1,10}$	$a_{1,10}$	$b_{1,10}$	$h_{xy,1,10}$	λ_d	i_c, λ_c	Code				
1 405	31 559	51.95	-55.93	-36.09	66.57	0.239	-0.6778	212.8	15 477	37 589	Cm				
7 435	32 561	51.88	-59.58	-8.61	60.2	0.2103	-0.4663	188.2	16 484	-1 484c					
10 450	32 562	52.37	-61.17	13.91	62.73	0.2024	-0.2936	167.1	18 493	-1 493c					
12 460	33 565	53.04	-60.97	27.44	66.86	0.2099	-0.1929	155.7	21 505	-1 505c					
13 465	33 568	54.6	-59.93	34.32	69.06	0.2306	-0.1484	150.1	23 515	-1 515c					
13 470	34 572	57.82	-59.12	37.53	70.03	0.2607	-0.1402	147.5	24 520	-1 520c	Gm				
14 475	36 581	62.4	-54.61	46.47	71.71	0.3196	-0.102	139.6	26 532	-1 532c					
16 480	40 604	73.1	-31.51	62.99	70.43	0.4972	-0.0552	116.5	30 551	-1 551c					
17 485	-1 485c	82.92	3.82	74.63	74.73	0.6881	-0.0399	87.0	32 564	11 456	max				
18 490	-1 490c	81.56	6.75	74.6	74.9	0.7028	-0.034	84.8	32 564	11 458					
19 495	-1 495c	79.98	10.07	73.98	74.66	0.72	-0.0299	82.2	33 565	12 460					
20 500	-1 500c	78.14	13.76	72.84	74.13	0.7401	-0.027	79.2	33 566	12 462					
22 510	-1 510c	73.64	22.11	69.2	72.65	0.7898	-0.024	72.2	33 569	13 466					
23 520	-1 519c	70.96	26.62	66.79	71.9	0.8198	-0.0234	68.2	34 570	13 468	Ym				
25 530	-1 529c	64.88	35.68	61.04	70.7	0.8896	-0.0236	59.6	34 573	14 470					
27 540	-1 539c	58.06	43.99	54.37	69.94	0.9727	-0.0253	51.0	35 577	14 473					
29 545	-1 545c	50.8	50.69	47.18	69.25	1.0688	-0.0284	42.9	36 582	15 475					
29 550	-1 549c	50.8	50.69	47.18	69.25	1.0688	-0.0284	42.9	36 582	15 475					
31 555	-1 555c	43.42	54.92	39.81	67.84	1.1756	-0.0331	35.9	37 587	15 476					
32 560	3 415	39.88	56.77	30.86	64.62	1.2391	-0.0904	28.5	38 594	15 478					
31 559	1 405	48.04	55.93	36.1	66.57	1.1353	-0.0993	32.8	37 589	15 477	Rm				
32 561	7 435	48.11	59.58	8.61	60.2	1.165	-0.3282	8.2	-1 484c	16 484					
32 562	10 450	47.62	61.16	-13.91	62.72	1.1834	-0.5168	347.1	-1 493c	18 493					
33 565	12 460	46.95	60.95	-27.43	66.84	1.1889	-0.6336	335.7	-1 505c	21 505					
33 568	13 465	45.39	59.91	-34.31	69.04	1.1976	-0.7022	330.1	-1 515c	23 515					
34 572	13 470	42.17	59.1	-37.52	70.01	1.2302	-0.7558	327.5	-1 520c	24 520	Mm				
36 581	14 475	37.59	54.59	-46.45	71.68	1.2506	-0.8941	319.6	-1 532c	26 532					
40 604	16 480	26.89	31.5	-62.96	70.4	1.1383	-1.3365	296.5	-1 551c	30 551					
-1 485c	17 485	17.07	-3.82	-74.59	74.68	0.58	-2.1477	267.0	11 456	32 564	min				
-1 490c	18 490	18.43	-6.75	-74.56	74.86	0.5231	-2.0181	264.8	11 458	32 564					
-1 495c	19 495	20.01	-10.07	-73.94	74.62	0.4684	-1.8776	262.2	12 460	33 565					
-1 500c	20 500	21.85	-13.76	-72.81	74.1	0.4177	-1.7326	259.2	12 462	33 566					
-1 510c	22 510	26.35	-22.1	-69.18	72.62	0.3342	-1.45	252.2	13 466	33 569					
-1 519c	23 520	29.03	-26.62	-66.77	71.88	0.3029	-1.3198	248.2	13 468	34 570	Bm				
-1 529c	25 530	35.11	-35.67	-61.02	70.69	0.2632	-1.0951	239.6	14 470	34 573					
-1 539c	27 540	41.93	-43.98	-54.37	69.93	0.2501	-0.9185	231.0	14 473	35 577					
-1 545c	29 545	49.19	-50.68	-47.18	69.25	0.2575	-0.7835	222.9	15 475	36 582					
-1 549c	29 550	49.19	-50.68	-47.18	69.25	0.2575	-0.7835	222.9	15 475	36 582					
-1 555c	31 555	56.57	-54.92	-39.81	67.83	0.2813	-0.6814	215.9	15 476	37 587					
3 415	32 560	60.11	-56.77	-30.85	64.61	0.2919	-0.6052	208.5	15 478	38 594					
W0 380	770	99.99	0.0	0.0	0.0	0.6697	-0.3999	0.0	$B_c=1,000$						
N0 380	770	3.99	0.0	0.0	0.0	0.6697	-0.3999	0.0	$x_c=0,110$						

CEX50-7N

TUB-test chart CEX5; Hue circle of the *Ostwald* optimal colours with Y values, $Y_{N,10}=0,0$, $Y_{W,10}=100$
Data: $YA_1B_1C_{AB,1}h_{AB,1}$ and $YA_2B_2C_{AB,2}h_{AB,2}$ as table with different wavelength, E00-10

1-001400-E0

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for E00, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$												
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{2,10}$	$B_{2,10}$	$C_{AB,2,10}$	$a_{2,10}$	$b_{2,10}$	$h_{xy,2,10}$	λ_d	i_c, λ_c	Code	
1 405	31 559	51.95	-55.93	-32.48	64.68	0.239	-0.6778	210.1	15 477	37 589	Cm	
7 435	32 561	51.88	-59.58	-7.75	60.08	0.2103	-0.4663	187.4	16 484	-1 484c		
10 450	32 562	52.37	-61.17	12.52	62.44	0.2024	-0.2936	168.4	18 493	-1 493c		
12 460	33 565	53.04	-60.97	24.7	65.78	0.2099	-0.1929	157.9	21 505	-1 505c		
13 465	33 568	54.6	-59.93	30.89	67.42	0.2306	-0.1484	152.7	23 515	-1 515c		
13 470	34 572	57.82	-59.12	33.78	68.09	0.2607	-0.1402	150.2	24 520	-1 520c	Gm	
14 475	36 581	62.4	-54.61	41.82	68.78	0.3196	-0.102	142.5	26 532	-1 532c		
16 480	40 604	73.1	-31.51	56.69	64.86	0.4972	-0.0552	119.0	30 551	-1 551c		
17 485	-1 485c	82.92	3.82	67.17	67.28	0.6881	-0.0399	86.7	32 564	11 456	max	
18 490	-1 490c	81.56	6.75	67.14	67.48	0.7028	-0.034	84.2	32 564	11 458		
19 495	-1 495c	79.98	10.07	66.58	67.34	0.72	-0.0299	81.3	33 565	12 460		
20 500	-1 500c	78.14	13.76	65.56	66.99	0.7401	-0.027	78.1	33 566	12 462		
22 510	-1 510c	73.64	22.11	62.28	66.09	0.7898	-0.024	70.4	33 569	13 466		
23 520	-1 519c	70.96	26.62	60.11	65.74	0.8198	-0.0234	66.1	34 570	13 468	Ym	
25 530	-1 529c	64.88	35.68	54.93	65.51	0.8896	-0.0236	56.9	34 573	14 470		
27 540	-1 539c	58.06	43.99	48.94	65.8	0.9727	-0.0253	48.0	35 577	14 473		
29 545	-1 545c	50.8	50.69	42.46	66.13	1.0688	-0.0284	39.9	36 582	15 475		
29 550	-1 549c	50.8	50.69	42.46	66.13	1.0688	-0.0284	39.9	36 582	15 475		
31 555	-1 555c	43.42	54.92	35.83	65.58	1.1756	-0.0331	33.1	37 587	15 476		
32 560	3 415	39.88	56.77	27.77	63.2	1.2391	-0.0904	26.0	38 594	15 478		
31 559	1 405	48.04	55.93	32.49	64.69	1.1353	-0.0993	30.1	37 589	15 477	Rm	
32 561	7 435	48.11	59.58	7.75	60.08	1.165	-0.3282	7.4	-1 484c	16 484		
32 562	10 450	47.62	61.16	-12.52	62.43	1.1834	-0.5168	348.4	-1 493c	18 493		
33 565	12 460	46.95	60.95	-24.69	65.76	1.1889	-0.6336	337.9	-1 505c	21 505		
33 568	13 465	45.39	59.91	-30.88	67.4	1.1976	-0.7022	332.7	-1 515c	23 515		
34 572	13 470	42.17	59.1	-33.77	68.07	1.2302	-0.7558	330.2	-1 520c	24 520	Mm	
36 581	14 475	37.59	54.59	-41.8	68.76	1.2506	-0.8941	322.5	-1 532c	26 532		
40 604	16 480	26.89	31.5	-56.66	64.83	1.1383	-1.3365	299.0	-1 551c	30 551		
-1 485c	17 485	17.07	-3.82	-67.13	67.24	0.58	-2.1477	266.7	11 456	32 564	min	
-1 490c	18 490	18.43	-6.75	-67.1	67.44	0.5231	-2.0181	264.2	11 458	32 564		
-1 495c	19 495	20.01	-10.07	-66.55	67.3	0.4684	-1.8776	261.3	12 460	33 565		
-1 500c	20 500	21.85	-13.76	-65.53	66.96	0.4177	-1.7326	258.1	12 462	33 566		
-1 510c	22 510	26.35	-22.1	-62.26	66.07	0.3342	-1.45	250.4	13 466	33 569		
-1 519c	23 520	29.03	-26.62	-60.09	65.72	0.3029	-1.3198	246.1	13 468	34 570	Bm	
-1 529c	25 530	35.11	-35.67	-54.92	65.49	0.2632	-1.0951	236.9	14 470	34 573		
-1 539c	27 540	41.93	-43.98	-48.93	65.79	0.2501	-0.9185	228.0	14 473	35 577		
-1 545c	29 545	49.19	-50.68	-42.46	66.12	0.2575	-0.7835	219.9	15 475	36 582		
-1 549c	29 550	49.19	-50.68	-42.46	66.12	0.2575	-0.7835	219.9	15 475	36 582		
-1 555c	31 555	56.57	-54.92	-35.83	65.57	0.2813	-0.6814	213.1	15 476	37 587		
3 415	32 560	60.11	-56.77	-27.77	63.2	0.2919	-0.6052	206.0	15 478	38 594		
W0 380	770	99.99	0.0	0.0	0.0	0.6697	-0.3599	0.0		$B_c=0.900$		
N0 380	770	3.99	0.0	0.0	0.0	0.6697	-0.3599	0.0		$x_c=0.110$		

see similar files: <http://farbe.li-tu-berlin.de/CEX5/CEX5.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for C00, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$														
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{1,10}$	$B_{1,10}$	$C_{AB,1,10}$	$a_{1,10}$	$b_{1,10}$	$h_{xy,1,10}$	λ_d	i_c, λ_c	Code			
1 405	31 556	51.78	-52.72	-42.98	68.02	0.2205	-0.7964	219.1	15 475	37 586	Cm			
6 435	31 558	52.82	-56.12	-20.23	59.65	0.2029	-0.6176	199.8	16 480	44 624				
9 450	32 560	53.05	-58.76	6.46	59.12	0.1848	-0.4157	173.7	17 487	-1 487c				
12 460	32 563	54.1	-58.82	32.28	67.09	0.193	-0.2257	151.2	20 504	-1 504c				
12 465	33 566	56.19	-58.66	34.71	68.16	0.2103	-0.2173	149.3	21 507	-1 507c				
13 470	34 572	59.45	-56.52	45.02	72.26	0.2476	-0.1615	141.4	23 519	-1 519c	Gm			
14 475	36 582	65.18	-50.06	57.01	75.87	0.3206	-0.1145	131.2	26 534	-1 534c				
16 480	44 622	78.48	-13.75	79.6	80.78	0.5577	-0.0586	99.8	31 556	0 404				
17 485	-1 485c	81.46	4.5	85.27	85.39	0.65	-0.0456	86.9	32 562	11 456	max			
18 490	-1 490c	79.85	7.79	84.98	85.34	0.6669	-0.0387	84.7	32 563	11 459				
19 495	-1 495c	78.05	11.37	83.99	84.76	0.6861	-0.0339	82.2	32 564	12 461				
20 500	-1 500c	76.06	15.17	82.44	83.83	0.7076	-0.0308	79.5	33 565	12 463				
22 510	-1 510c	71.49	23.18	78.02	81.39	0.7576	-0.0278	73.4	33 567	13 466				
24 520	-1 520c	66.06	31.4	72.16	78.7	0.818	-0.0275	66.4	34 570	13 468	Ym			
26 530	-1 530c	59.74	39.29	65.05	76.0	0.8909	-0.0289	58.8	34 574	14 471				
28 540	-1 540c	52.56	46.26	56.81	73.27	0.9799	-0.032	50.8	35 578	14 473				
28 545	-1 544c	52.56	46.26	56.81	73.27	0.9799	-0.032	50.8	35 578	14 473				
29 550	-1 549c	48.76	49.07	52.43	71.81	1.0304	-0.0343	46.8	36 580	14 474				
31 555	-1 555c	41.03	52.69	43.46	68.3	1.1415	-0.0407	39.5	37 585	15 475				
31 560	9 447	42.55	58.27	-4.92	58.48	1.1757	-0.5107	355.1	-1 487c	17 487				
31 556	1 405	48.21	52.72	42.98	68.03	1.0653	-0.1078	39.1	37 586	15 475	Rm			
31 558	6 435	47.17	56.11	20.23	59.65	1.1037	-0.2928	19.8	44 624	16 480				
32 560	9 450	46.94	58.75	-6.45	59.11	1.1285	-0.5194	353.7	-1 487c	17 487				
32 563	12 460	45.89	58.8	-32.27	67.07	1.1404	-0.7457	331.2	-1 504c	20 504				
33 566	12 465	43.8	58.64	-34.7	68.14	1.1634	-0.7813	329.3	-1 507c	21 507				
34 572	13 470	40.54	56.5	-45.0	72.23	1.1854	-0.9085	321.4	-1 519c	23 519	Mm			
36 582	14 475	34.81	50.04	-56.99	75.85	1.2029	-1.1192	311.2	-1 534c	26 534				
44 622	16 480	21.51	13.74	-79.56	80.74	0.8833	-1.9433	279.8	0 404	31 556				
-1 485c	17 485	18.53	-4.5	-85.22	85.34	0.5307	-2.3032	266.9	11 456	32 562	min			
-1 490c	18 490	20.14	-7.78	-84.94	85.29	0.4732	-2.1512	264.7	11 459	32 563				
-1 495c	19 495	21.94	-11.36	-83.95	84.72	0.4207	-1.9949	262.2	12 461	32 564				
-1 500c	20 500	23.93	-15.16	-82.4	83.79	0.3744	-1.8415	259.5	12 463	33 565				
-1 510c	22 510	28.5	-23.17	-77.99	81.36	0.3027	-1.5586	253.4	13 466	33 567				
-1 520c	24 520	33.93	-31.39	-72.14	78.67	0.2578	-1.3147	246.4	13 468	34 570	Bm			
-1 530c	26 530	40.25	-39.28	-65.03	75.98	0.2374	-1.1107	238.8	14 471	34 574				
-1 540c	28 540	47.43	-46.26	-56.8	73.25	0.2378	-0.9434	230.8	14 473	35 578				
-1 544c	28 545	47.43	-46.26	-56.8	73.25	0.2378	-0.9434	230.8	14 473	35 578				
-1 549c	29 550	51.23	-49.06	-52.42	71.8	0.2447	-0.8737	226.8	14 474	36 580				
-1 555c	31 555	58.96	-52.69	-43.46	68.3	0.2704	-0.7592	219.5	15 475	37 585				
9 447	31 560	57.44	-58.28	4.92	58.49	0.222	-0.4301	175.1	17 487	-1 487c				
W0	380 770	99.99	0.0	0.0	0.0	0.6278	-0.4644	0.0	$B_c=1,000$					
N0	380 770	3.99	0.0	0.0	0.0	0.6278	-0.4644	0.0	$x_c=0,110$					

CEX50-7N

TUB-test chart CEX5; Hue circle of the *Ostwald* optimal colours with Y values, $Y_{N,10}=0,0$, $Y_{W,10}=100$
Data: $YA_1B_1C_{AB,1}h_{AB,1}$ and $YA_2B_2C_{AB,2}h_{AB,2}$ as table with different wavelength, C00-10

1-001500-F0

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for C00, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$														
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{2,10}$	$B_{2,10}$	$C_{AB,2,10}$	$a_{2,10}$	$b_{2,10}$	$h_{xy,2,10}$	λ_d	i_c, λ_c	Code			
1 405	31 556	51.78	-52.72	-30.08	60.7	0.2205	-0.7964	209.7	15 475	37 586	Cm			
6 435	31 558	52.82	-56.12	-14.16	57.88	0.2029	-0.6176	194.1	16 480	44 624				
9 450	32 560	53.05	-58.76	4.52	58.94	0.1848	-0.4157	175.5	17 487	-1 487c				
12 460	32 563	54.1	-58.82	22.59	63.01	0.193	-0.2257	158.9	20 504	-1 504c				
12 465	33 566	56.19	-58.66	24.29	63.49	0.2103	-0.2173	157.5	21 507	-1 507c				
13 470	34 572	59.45	-56.52	31.51	64.71	0.2476	-0.1615	150.8	23 519	-1 519c	Gm			
14 475	36 582	65.18	-50.06	39.91	64.02	0.3206	-0.1145	141.4	26 534	-1 534c				
16 480	44 622	78.48	-13.75	55.72	57.39	0.5577	-0.0586	103.8	31 556	0 404				
17 485	-1 485c	81.46	4.5	59.69	59.86	0.65	-0.0456	85.6	32 562	11 456	max			
18 490	-1 490c	79.85	7.79	59.49	60.0	0.6669	-0.0387	82.5	32 563	11 459				
19 495	-1 495c	78.05	11.37	58.79	59.88	0.6861	-0.0339	79.0	32 564	12 461				
20 500	-1 500c	76.06	15.17	57.71	59.67	0.7076	-0.0308	75.2	33 565	12 463				
22 510	-1 510c	71.49	23.18	54.61	59.33	0.7576	-0.0278	66.9	33 567	13 466				
24 520	-1 520c	66.06	31.4	50.51	59.48	0.818	-0.0275	58.1	34 570	13 468	Ym			
26 530	-1 530c	59.74	39.29	45.53	60.14	0.8909	-0.0289	49.2	34 574	14 471				
28 540	-1 540c	52.56	46.26	39.77	61.01	0.9799	-0.032	40.6	35 578	14 473				
28 545	-1 544c	52.56	46.26	39.77	61.01	0.9799	-0.032	40.6	35 578	14 473				
29 550	-1 549c	48.76	49.07	36.7	61.28	1.0304	-0.0343	36.7	36 580	14 474				
31 555	-1 555c	41.03	52.69	30.42	60.84	1.1415	-0.0407	30.0	37 585	15 475				
31 560	9 447	42.55	58.27	-3.44	58.37	1.1757	-0.5107	356.6	-1 487c	17 487				
31 556	1 405	48.21	52.72	30.09	60.71	1.0653	-0.1078	29.7	37 586	15 475	Rm			
31 558	6 435	47.17	56.11	14.16	57.87	1.1037	-0.2928	14.1	44 624	16 480				
32 560	9 450	46.94	58.75	-4.52	58.93	1.1285	-0.5194	355.5	-1 487c	17 487				
32 563	12 460	45.89	58.8	-22.59	62.99	1.1404	-0.7457	338.9	-1 504c	20 504				
33 566	12 465	43.8	58.64	-24.29	63.47	1.1634	-0.7813	337.5	-1 507c	21 507				
34 572	13 470	40.54	56.5	-31.5	64.69	1.1854	-0.9085	330.8	-1 519c	23 519	Mm			
36 582	14 475	34.81	50.04	-39.89	64.0	1.2029	-1.1192	321.4	-1 534c	26 534				
44 622	16 480	21.51	13.74	-55.69	57.36	0.8833	-1.9433	283.8	0 404	31 556				
-1 485c	17 485	18.53	-4.5	-59.65	59.82	0.5307	-2.3032	265.6	11 456	32 562	min			
-1 490c	18 490	20.14	-7.78	-59.45	59.96	0.4732	-2.1512	262.5	11 459	32 563				
-1 495c	19 495	21.94	-11.36	-58.76	59.85	0.4207	-1.9949	259.0	12 461	32 564				
-1 500c	20 500	23.93	-15.16	-57.68	59.64	0.3744	-1.8415	255.2	12 463	33 565				
-1 510c	22 510	28.5	-23.17	-54.59	59.3	0.3027	-1.5586	246.9	13 466	33 567				
-1 520c	24 520	33.93	-31.39	-50.49	59.46	0.2578	-1.3147	238.1	13 468	34 570	Bm			
-1 530c	26 530	40.25	-39.28	-45.52	60.13	0.2374	-1.1107	229.2	14 471	34 574				
-1 540c	28 540	47.43	-46.26	-39.76	61.0	0.2378	-0.9434	220.6	14 473	35 578				
-1 544c	28 545	47.43	-46.26	-39.76	61.0	0.2378	-0.9434	220.6	14 473	35 578				
-1 549c	29 550	51.23	-49.06	-36.69	61.27	0.2447	-0.8737	216.7	14 474	36 580				
-1 555c	31 555	58.96	-52.69	-30.42	60.84	0.2704	-0.7592	210.0	15 475	37 585				
9 447	31 560	57.44	-58.28	3.44	58.38	0.222	-0.4301	176.6	17 487	-1 487c				
W0 380	770	99.99	0.0	0.0	0.0	0.6278	-0.3251	0.0	$B_c=0,700$					
N0 380	770	3.99	0.0	0.0	0.0	0.6278	-0.3251	0.0	$x_c=0,110$					

see similar files: <http://farbe.li-tu-berlin.de/CEX5/CEX5.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) C _{AB,10} for P00, Y _{N,10} =0, Y _{W,10} =100, Y _m =520_770														
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀	A _{1,10}	B _{1,10}	C _{AB,1,10}	a _{1,10}	b _{1,10}	h _{xy,1,10}	λ _d	i _c , λ _c	Code			
0 405	32 562	51.03	-58.0	-31.02	65.78	0.2569	-0.5681	208.1	15 479	38 591	Cm			
7 435	32 563	51.44	-61.06	-8.62	61.66	0.2367	-0.392	188.0	17 485	-1 485c				
9 450	32 564	52.14	-62.21	3.84	62.33	0.2343	-0.2954	176.4	18 491	-1 491c				
12 460	33 567	52.25	-61.87	20.46	65.16	0.2379	-0.1682	161.6	21 505	-1 505c				
13 465	33 569	53.51	-61.12	25.96	66.41	0.2546	-0.1308	156.9	23 515	-1 515c				
13 470	34 572	55.97	-60.59	27.97	66.73	0.2785	-0.125	155.2	23 518	-1 518c	Gm			
15 475	35 579	59.06	-55.8	37.04	66.98	0.3336	-0.074	146.4	26 534	-1 534c				
16 480	38 593	67.08	-44.08	45.71	63.51	0.4486	-0.0523	133.9	29 547	-1 547c				
17 485	-1 485c	84.04	4.39	61.09	61.25	0.7324	-0.0341	85.8	33 566	11 457	max			
17 490	-1 489c	84.04	4.39	61.09	61.25	0.7324	-0.0341	85.8	33 566	11 457				
19 495	-1 495c	81.41	10.24	61.0	61.85	0.7619	-0.0251	80.4	33 567	12 461				
19 500	-1 499c	81.41	10.24	61.0	61.85	0.7619	-0.0251	80.4	33 567	12 461				
22 510	-1 510c	75.61	21.87	57.71	61.71	0.8272	-0.0196	69.2	34 570	13 467				
23 520	-1 519c	73.11	26.34	55.92	61.82	0.8556	-0.0189	64.7	34 572	13 469	Ym			
26 530	-1 530c	64.15	39.96	49.05	63.27	0.9607	-0.019	50.8	35 577	14 473				
28 540	-1 540c	57.25	48.11	43.55	64.89	1.0476	-0.0206	42.1	36 580	15 475				
28 545	-1 544c	57.25	48.11	43.55	64.89	1.0476	-0.0206	42.1	36 580	15 475				
29 550	-1 549c	53.65	51.53	40.64	65.63	1.0958	-0.0218	38.2	36 583	15 476				
31 555	-1 555c	46.26	56.53	34.65	66.31	1.2003	-0.0252	31.5	37 587	15 478				
32 560	-1 560c	42.54	57.9	31.63	65.98	1.2559	-0.0274	28.6	38 590	15 479				
32 562	0 405	48.96	58.01	31.03	65.78	1.1854	-0.0714	28.1	38 591	15 479	Rm			
32 563	7 435	48.55	61.05	8.62	61.66	1.2145	-0.2538	8.0	-1 485c	17 485				
32 564	9 450	47.85	62.2	-3.84	62.32	1.2315	-0.357	356.4	-1 491c	18 491				
33 567	12 460	47.74	61.85	-20.46	65.15	1.2298	-0.4963	341.6	-1 505c	21 505				
33 569	13 465	46.48	61.11	-25.96	66.4	1.2374	-0.5482	336.9	-1 515c	23 515				
34 572	13 470	44.02	60.58	-27.96	66.72	1.262	-0.5789	335.2	-1 518c	23 518	Mm			
35 579	15 475	40.93	55.79	-37.03	66.96	1.2567	-0.6868	326.4	-1 534c	26 534				
38 593	16 480	32.91	44.07	-45.7	63.49	1.2471	-0.8803	313.9	-1 547c	29 547				
-1 485c	17 485	15.95	-4.39	-61.06	61.22	0.6014	-1.8559	265.8	11 457	33 566	min			
-1 489c	17 490	15.95	-4.39	-61.06	61.22	0.6014	-1.8559	265.8	11 457	33 566				
-1 495c	19 495	18.58	-10.24	-60.97	61.83	0.4911	-1.6373	260.4	12 461	33 567				
-1 499c	19 500	18.58	-10.24	-60.97	61.83	0.4911	-1.6373	260.4	12 461	33 567				
-1 510c	22 510	24.38	-21.86	-57.69	61.7	0.3529	-1.2712	249.2	13 467	34 570				
-1 519c	23 520	26.88	-26.33	-55.91	61.8	0.3197	-1.1567	244.7	13 469	34 572	Bm			
-1 530c	26 530	35.84	-39.96	-49.05	63.26	0.2655	-0.8723	230.8	14 473	35 577				
-1 540c	28 540	42.74	-48.1	-43.54	64.89	0.2613	-0.7324	222.1	15 475	36 580				
-1 544c	28 545	42.74	-48.1	-43.54	64.89	0.2613	-0.7324	222.1	15 475	36 580				
-1 549c	29 550	46.34	-51.53	-40.64	65.62	0.2668	-0.6756	218.2	15 476	36 583				
-1 555c	31 555	53.73	-56.53	-34.65	66.3	0.2907	-0.5828	211.5	15 478	37 587				
-1 560c	32 560	57.45	-57.9	-31.63	65.98	0.3084	-0.5451	208.6	15 479	38 590				
W0 380	770	99.99	0.0	0.0	0.0	0.7115	-0.3249	0.0	B _c =1,000					
N0 380	770	3.99	0.0	0.0	0.0	0.7115	-0.3249	0.0	x _c =0,110					

CEX50-7N

TUB-test chart CEX5; Hue circle of the *Ostwald* optimal colours with Y values, $Y_{N,10}=0,0$, $Y_{W,10}=100$
Data: $YA_1B_1C_{AB,1}h_{AB,1}$ and $YA_2B_2C_{AB,2}h_{AB,2}$ as table with different wavelength, P00-10

1-001600-F0

Ostwald optimal colours (o), maximum (m) C _{AB,10} for P00, Y _{N,10} =0, Y _{W,10} =100, Y _m =520_770															
i ₁ , λ ₁	i ₂ , λ ₂	Y ₁₀	A _{2,10}	B _{2,10}	C _{AB,2,10}	a _{2,10}	b _{2,10}	h _{xy,2,10}	d ₁₀	λ _d	i _c , λ _c	Code			
0	405	32 562	51.03	-58.0	-31.02	65.78	0.2569	-0.5681	208.1	15 479	38 591	Cm			
7	435	32 563	51.44	-61.06	-8.62	61.66	0.2367	-0.392	188.0	17 485	-1 485c				
9	450	32 564	52.14	-62.21	3.84	62.33	0.2343	-0.2954	176.4	18 491	-1 491c				
12	460	33 567	52.25	-61.87	20.46	65.16	0.2379	-0.1682	161.6	21 505	-1 505c				
13	465	33 569	53.51	-61.12	25.96	66.41	0.2546	-0.1308	156.9	23 515	-1 515c				
13	470	34 572	55.97	-60.59	27.97	66.73	0.2785	-0.125	155.2	23 518	-1 518c	Gm			
15	475	35 579	59.06	-55.8	37.04	66.98	0.3336	-0.074	146.4	26 534	-1 534c				
16	480	38 593	67.08	-44.08	45.71	63.51	0.4486	-0.0523	133.9	29 547	-1 547c				
17	485	-1 485c	84.04	4.39	61.09	61.25	0.7324	-0.0341	85.8	33 566	11 457	max			
17	490	-1 489c	84.04	4.39	61.09	61.25	0.7324	-0.0341	85.8	33 566	11 457				
19	495	-1 495c	81.41	10.24	61.0	61.85	0.7619	-0.0251	80.4	33 567	12 461				
19	500	-1 499c	81.41	10.24	61.0	61.85	0.7619	-0.0251	80.4	33 567	12 461				
22	510	-1 510c	75.61	21.87	57.71	61.71	0.8272	-0.0196	69.2	34 570	13 467				
23	520	-1 519c	73.11	26.34	55.92	61.82	0.8556	-0.0189	64.7	34 572	13 469	Ym			
26	530	-1 530c	64.15	39.96	49.05	63.27	0.9607	-0.019	50.8	35 577	14 473				
28	540	-1 540c	57.25	48.11	43.55	64.89	1.0476	-0.0206	42.1	36 580	15 475				
28	545	-1 544c	57.25	48.11	43.55	64.89	1.0476	-0.0206	42.1	36 580	15 475				
29	550	-1 549c	53.65	51.53	40.64	65.63	1.0958	-0.0218	38.2	36 583	15 476				
31	555	-1 555c	46.26	56.53	34.65	66.31	1.2003	-0.0252	31.5	37 587	15 478				
32	560	-1 560c	42.54	57.9	31.63	65.98	1.2559	-0.0274	28.6	38 590	15 479				
32	562	0	405	48.96	58.01	31.03	65.78	1.1854	-0.0714	28.1	38 591	15 479	Rm		
32	563	7	435	48.55	61.05	8.62	61.66	1.2145	-0.2538	8.0	-1 485c	17 485			
32	564	9	450	47.85	62.2	-3.84	62.32	1.2315	-0.357	356.4	-1 491c	18 491			
33	567	12	460	47.74	61.85	-20.46	65.15	1.2298	-0.4963	341.6	-1 505c	21 505			
33	569	13	465	46.48	61.11	-25.96	66.4	1.2374	-0.5482	336.9	-1 515c	23 515			
34	572	13	470	44.02	60.58	-27.96	66.72	1.262	-0.5789	335.2	-1 518c	23 518	Mm		
35	579	15	475	40.93	55.79	-37.03	66.96	1.2567	-0.6868	326.4	-1 534c	26 534			
38	593	16	480	32.91	44.07	-45.7	63.49	1.2471	-0.8803	313.9	-1 547c	29 547			
-1	485c	17	485	15.95	-4.39	-61.06	61.22	0.6014	-1.8559	265.8	11 457	33 566	min		
-1	489c	17	490	15.95	-4.39	-61.06	61.22	0.6014	-1.8559	265.8	11 457	33 566			
-1	495c	19	495	18.58	-10.24	-60.97	61.83	0.4911	-1.6373	260.4	12 461	33 567			
-1	499c	19	500	18.58	-10.24	-60.97	61.83	0.4911	-1.6373	260.4	12 461	33 567			
-1	510c	22	510	24.38	-21.86	-57.69	61.7	0.3529	-1.2712	249.2	13 467	34 570			
-1	519c	23	520	26.88	-26.33	-55.91	61.8	0.3197	-1.1567	244.7	13 469	34 572	Bm		
-1	530c	26	530	35.84	-39.96	-49.05	63.26	0.2655	-0.8723	230.8	14 473	35 577			
-1	540c	28	540	42.74	-48.1	-43.54	64.89	0.2613	-0.7324	222.1	15 475	36 580			
-1	544c	28	545	42.74	-48.1	-43.54	64.89	0.2613	-0.7324	222.1	15 475	36 580			
-1	549c	29	550	46.34	-51.53	-40.64	65.62	0.2668	-0.6756	218.2	15 476	36 583			
-1	555c	31	555	53.73	-56.53	-34.65	66.3	0.2907	-0.5828	211.5	15 478	37 587			
-1	560c	32	560	57.45	-57.9	-31.63	65.98	0.3084	-0.5451	208.6	15 479	38 590			
W0	380	770	99.99	0.0	0.0	0.0	0.7115	-0.3249	0.0		B _c =1,000				
N0	380	770	3.99	0.0	0.0	0.0	0.7115	-0.3249	0.0		x _c =0,110				

see similar files: <http://farbe.li-tu-berlin.de/CEX5/CEX5.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for Q00, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$													
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{1,10}$	$B_{1,10}$	$C_{AB,1,10}$	$a_{1,10}$	$b_{1,10}$	$h_{xy,1,10}$	λ_d	i_c, λ_c	Code		
1 405	31 556	52.14	-52.97	-42.35	67.82	0.2222	-0.7983	218.6	15 475	37 587	Cm		
7 435	31 558	52.8	-57.82	-7.86	58.36	0.1905	-0.5331	187.7	16 482	-1 482c			
10 450	32 560	52.84	-59.87	18.41	62.64	0.1753	-0.3341	162.9	18 493	-1 493c			
12 460	32 563	54.31	-59.59	35.17	69.2	0.1897	-0.2145	149.4	21 506	-1 506c			
13 465	33 566	55.64	-58.53	42.88	72.56	0.2078	-0.1652	143.7	23 515	-1 515c			
13 470	34 572	59.63	-57.29	47.6	74.49	0.2442	-0.1542	140.2	24 520	-1 520c	Gm		
15 475	36 583	64.53	-48.76	62.19	79.03	0.3263	-0.088	128.1	27 536	-1 536c			
15 480	45 629	81.28	-12.84	82.02	83.01	0.5654	-0.0699	98.8	31 557	2 414			
17 485	-1 485c	81.83	3.04	87.51	87.56	0.6435	-0.0457	88.0	32 561	11 455	max		
17 490	-1 489c	81.83	3.04	87.51	87.56	0.6435	-0.0457	88.0	32 561	11 455			
18 495	-1 494c	80.32	6.14	87.2	87.42	0.6592	-0.0392	85.9	32 562	11 458			
19 500	-1 499c	78.57	9.61	86.2	86.73	0.6775	-0.0347	83.6	32 563	12 460			
21 510	-1 509c	74.28	17.57	82.43	84.28	0.7232	-0.0296	77.9	33 566	12 464			
24 520	-1 520c	65.75	30.98	73.2	79.49	0.8171	-0.0282	67.0	34 570	13 468	Ym		
26 530	-1 530c	58.99	39.45	65.44	76.41	0.8961	-0.0298	58.9	34 574	14 471			
27 540	-1 539c	55.4	43.22	61.25	74.96	0.9407	-0.0313	54.7	35 576	14 472			
29 545	-1 545c	48.02	49.29	52.57	72.06	1.0392	-0.0355	46.8	36 581	14 474			
30 550	-1 550c	44.31	51.39	48.2	70.45	1.0924	-0.0384	43.1	36 583	15 475			
30 555	-1 554c	44.31	51.39	48.2	70.45	1.0924	-0.0384	43.1	36 583	15 475			
31 560	9 447	42.24	59.05	-8.67	59.68	1.1878	-0.5556	351.6	-1 488c	17 488			
31 556	1 405	47.85	52.98	42.35	67.83	1.0715	-0.1194	38.6	37 587	15 475	Rm		
31 558	7 435	47.19	57.82	7.86	58.35	1.1187	-0.4068	7.7	-1 482c	16 482			
32 560	10 450	47.15	59.86	-18.4	62.63	1.1364	-0.6297	342.9	-1 493c	18 493			
32 563	12 460	45.68	59.58	-35.16	69.18	1.1503	-0.7814	329.4	-1 506c	21 506			
33 566	13 465	44.35	58.51	-42.87	72.54	1.1563	-0.8602	323.7	-1 515c	23 515			
34 572	13 470	40.36	57.28	-47.59	74.47	1.1961	-0.9451	320.2	-1 520c	24 520	Mm		
36 583	15 475	35.46	48.74	-62.16	79.0	1.1784	-1.1747	308.1	-1 536c	27 536			
45 629	15 480	18.71	12.83	-81.96	82.96	0.9028	-2.2254	278.8	2 414	31 557			
-1 485c	17 485	18.16	-3.04	-87.45	87.51	0.5615	-2.3992	268.0	11 455	32 561	min		
-1 489c	17 490	18.16	-3.04	-87.45	87.51	0.5615	-2.3992	268.0	11 455	32 561			
-1 494c	18 495	19.67	-6.13	-87.15	87.36	0.5038	-2.2453	265.9	11 458	32 562			
-1 499c	19 500	21.42	-9.61	-86.15	86.68	0.4491	-2.0822	263.6	12 460	32 563			
-1 509c	21 510	25.71	-17.56	-82.39	84.24	0.3553	-1.7554	257.9	12 464	33 566			
-1 520c	24 520	34.24	-30.98	-73.18	79.47	0.2667	-1.3284	247.0	13 468	34 570	Bm		
-1 530c	26 530	41.0	-39.44	-65.43	76.4	0.2437	-1.1118	238.9	14 471	34 574			
-1 539c	27 540	44.59	-43.21	-61.23	74.95	0.241	-1.0227	234.7	14 472	35 576			
-1 545c	29 545	51.97	-49.28	-52.56	72.05	0.2493	-0.878	226.8	14 474	36 581			
-1 550c	30 550	55.68	-51.38	-48.19	70.45	0.2594	-0.8197	223.1	15 475	36 583			
-1 554c	30 555	55.68	-51.38	-48.19	70.45	0.2594	-0.8197	223.1	15 475	36 583			
9 447	31 560	57.75	-59.06	8.67	59.69	0.2195	-0.4134	171.6	17 488	-1 488c			
W0 380	770	100.0	0.0	0.0	0.0	0.6286	-0.4735	0.0	$B_c=1,000$				
N0 380	770	4.0	0.0	0.0	0.0	0.6286	-0.4735	0.0	$x_c=0,110$				

CEX50-7N

TUB-test chart CEX5; Hue circle of the *Ostwald* optimal colours with Y values, $Y_{N,10}=0,0$, $Y_{W,10}=100$
Data: $YA_1B_1C_{AB,1}h_{AB,1}$ and $YA_2B_2C_{AB,2}h_{AB,2}$ as table with different wavelength, Q00-10

1-001700-F0

Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for Q00, $Y_{N,10}=0$, $Y_{W,10}=100$, $Y_m=520_770$													
i_1, λ_1	i_2, λ_2	Y_{10}	$A_{2,10}$	$B_{2,10}$	$C_{AB,2,10}$	$a_{2,10}$	$b_{2,10}$	$h_{xy,2,10}$	λ_d	i_c, λ_c	Code		
1 405	31 556	52.14	-52.97	-29.64	60.7	0.2222	-0.7983	209.2	15 475	37 587	Cm		
7 435	31 558	52.8	-57.82	-5.5	58.09	0.1905	-0.5331	185.4	16 482	-1 482c			
10 450	32 560	52.84	-59.87	12.88	61.24	0.1753	-0.3341	167.8	18 493	-1 493c			
12 460	32 563	54.31	-59.59	24.62	64.48	0.1897	-0.2145	157.5	21 506	-1 506c			
13 465	33 566	55.64	-58.53	30.02	65.78	0.2078	-0.1652	152.8	23 515	-1 515c			
13 470	34 572	59.63	-57.29	33.32	66.28	0.2442	-0.1542	149.8	24 520	-1 520c	Gm		
15 475	36 583	64.53	-48.76	43.53	65.37	0.3263	-0.088	138.2	27 536	-1 536c			
15 480	45 629	81.28	-12.84	57.41	58.83	0.5654	-0.0699	102.6	31 557	2 414			
17 485	-1 485c	81.83	3.04	61.26	61.33	0.6435	-0.0457	87.1	32 561	11 455	max		
17 490	-1 489c	81.83	3.04	61.26	61.33	0.6435	-0.0457	87.1	32 561	11 455			
18 495	-1 494c	80.32	6.14	61.04	61.35	0.6592	-0.0392	84.2	32 562	11 458			
19 500	-1 499c	78.57	9.61	60.34	61.1	0.6775	-0.0347	80.9	32 563	12 460			
21 510	-1 509c	74.28	17.57	57.7	60.31	0.7232	-0.0296	73.0	33 566	12 464			
24 520	-1 520c	65.75	30.98	51.24	59.88	0.8171	-0.0282	58.8	34 570	13 468	Ym		
26 530	-1 530c	58.99	39.45	45.81	60.45	0.8961	-0.0298	49.2	34 574	14 471			
27 540	-1 539c	55.4	43.22	42.87	60.88	0.9407	-0.0313	44.7	35 576	14 472			
29 545	-1 545c	48.02	49.29	36.8	61.51	1.0392	-0.0355	36.7	36 581	14 474			
30 550	-1 550c	44.31	51.39	33.74	61.47	1.0924	-0.0384	33.2	36 583	15 475			
30 555	-1 554c	44.31	51.39	33.74	61.47	1.0924	-0.0384	33.2	36 583	15 475			
31 560	9 447	42.24	59.05	-6.07	59.36	1.1878	-0.5556	354.1	-1 488c	17 488			
31 556	1 405	47.85	52.98	29.64	60.71	1.0715	-0.1194	29.2	37 587	15 475	Rm		
31 558	7 435	47.19	57.82	5.5	58.08	1.1187	-0.4068	5.4	-1 482c	16 482			
32 560	10 450	47.15	59.86	-12.88	61.23	1.1364	-0.6297	347.8	-1 493c	18 493			
32 563	12 460	45.68	59.58	-24.61	64.46	1.1503	-0.7814	337.5	-1 506c	21 506			
33 566	13 465	44.35	58.51	-30.01	65.76	1.1563	-0.8602	332.8	-1 515c	23 515			
34 572	13 470	40.36	57.28	-33.31	66.26	1.1961	-0.9451	329.8	-1 520c	24 520	Mm		
36 583	15 475	35.46	48.74	-43.51	65.34	1.1784	-1.1747	318.2	-1 536c	27 536			
45 629	15 480	18.71	12.83	-57.37	58.79	0.9028	-2.2254	282.6	2 414	31 557			
-1 485c	17 485	18.16	-3.04	-61.22	61.29	0.5615	-2.3992	267.1	11 455	32 561	min		
-1 489c	17 490	18.16	-3.04	-61.22	61.29	0.5615	-2.3992	267.1	11 455	32 561			
-1 494c	18 495	19.67	-6.13	-61.0	61.31	0.5038	-2.2453	264.2	11 458	32 562			
-1 499c	19 500	21.42	-9.61	-60.3	61.06	0.4491	-2.0822	260.9	12 460	32 563			
-1 509c	21 510	25.71	-17.56	-57.67	60.29	0.3553	-1.7554	253.0	12 464	33 566			
-1 520c	24 520	34.24	-30.98	-51.22	59.86	0.2667	-1.3284	238.8	13 468	34 570	Bm		
-1 530c	26 530	41.0	-39.44	-45.8	60.44	0.2437	-1.1118	229.2	14 471	34 574			
-1 539c	27 540	44.59	-43.21	-42.86	60.87	0.241	-1.0227	224.7	14 472	35 576			
-1 545c	29 545	51.97	-49.28	-36.79	61.5	0.2493	-0.878	216.7	14 474	36 581			
-1 550c	30 550	55.68	-51.38	-33.73	61.47	0.2594	-0.8197	213.2	15 475	36 583			
-1 554c	30 555	55.68	-51.38	-33.73	61.47	0.2594	-0.8197	213.2	15 475	36 583			
9 447	31 560	57.75	-59.06	6.07	59.37	0.2195	-0.4134	174.1	17 488	-1 488c			
W0 380	770	100.0	0.0	0.0	0.0	0.6286	-0.3314	0.0	$B_c=0,700$				
N0 380	770	4.0	0.0	0.0	0.0	0.6286	-0.3314	0.0	$x_c=0,110$				

CEX51-7N