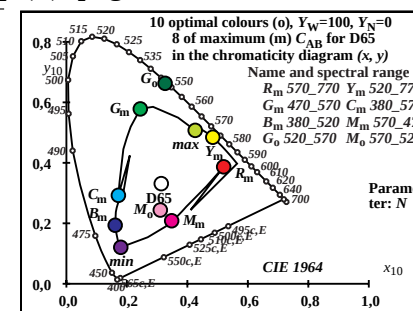


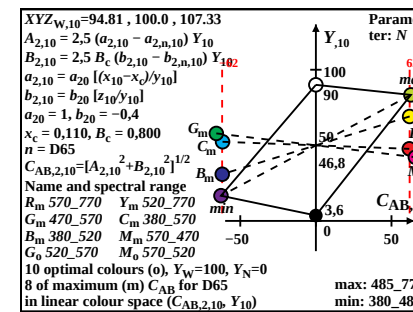
Ostwald optimal colours (o), maximum (m) C _{AB,10} for D65, Y _{N,10} =0, Y _{W,10} =100, Y _m =520_770												
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d , λ _d	i _c , λ _c	Cod	
0 405	31 556	30.74	52.33	95.9	0.1717	0.2924	0.5358	195.1	15 476	37 585	Cm	
6 435	31 557	27.63	53.26	76.12	0.176	0.3391	0.4847	176.5	16 480	44 621		
10 450	31 559	22.65	53.56	44.06	0.1883	0.4453	0.3662	137.6	18 492	-1 492c		
11 460	32 562	22.68	54.81	36.09	0.1996	0.4825	0.3177	126.9	19 498	-1 498c		
12 465	33 565	22.93	56.0	28.9	0.2126	0.5193	0.268	118.2	21 506	-1 506c		
14 470	34 570	24.46	57.89	17.7	0.2445	0.5785	0.1769	105.6	24 522	-1 522c	Gm	
15 475	35 579	30.89	63.11	13.83	0.2864	0.5852	0.1282	96.1	26 534	-1 534c		
16 480	41 606	49.97	74.33	10.97	0.3693	0.5494	0.0811	75.6	30 550	-1 550c		
16 485	-1 484c	69.99	83.34	10.97	0.4259	0.5072	0.0668	57.5	32 560	10 454	max	
18 490	-1 490c	69.83	80.55	7.49	0.4423	0.5102	0.0474	54.3	32 562	11 459		
19 495	-1 495c	69.81	78.81	6.43	0.4502	0.5082	0.0415	52.4	32 563	12 461		
19 500	-1 499c	69.81	78.81	6.43	0.4502	0.5082	0.0415	52.4	32 563	12 461		
22 510	-1 510c	69.45	71.94	4.73	0.4752	0.4923	0.0324	44.9	33 566	13 466		
23 520	-1 519c	69.08	69.1	4.45	0.4842	0.4844	0.0312	41.9	33 568	13 468	Ym	
26 530	-1 530c	66.62	59.04	4.0	0.5137	0.4553	0.0309	31.8	34 573	14 472		
27 540	-1 539c	65.29	55.35	3.94	0.524	0.4443	0.0316	28.3	35 576	14 473		
28 545	-1 544c	63.68	51.58	3.89	0.5343	0.4328	0.0327	24.7	35 578	14 474		
29 550	-1 549c	61.78	47.76	3.87	0.5447	0.4211	0.0341	21.3	36 580	15 475		
31 555	-1 555c	57.11	40.2	3.86	0.5644	0.3973	0.0381	14.8	37 586	15 476		
32 560	10 451	64.26	38.17	54.04	0.4106	0.2439	0.3453	318.1	-1 491c	18 491		
31 556	0 405	64.07	47.66	11.42	0.5202	0.3869	0.0927	15.1	37 585	15 476	Rm	
31 557	6 435	67.17	46.73	31.21	0.4628	0.322	0.215	356.5	44 621	16 480		
31 559	10 450	72.15	46.43	63.27	0.3967	0.2553	0.3479	317.6	-1 492c	18 492		
32 562	11 460	72.13	45.18	71.24	0.3825	0.2396	0.3778	307.0	-1 498c	19 498		
33 565	12 465	71.88	43.99	78.42	0.3699	0.2264	0.4036	298.2	-1 506c	21 506		
34 570	14 470	70.34	42.1	89.62	0.348	0.2083	0.4435	285.6	-1 522c	24 522	Mm	
35 579	15 475	63.91	36.88	93.5	0.3289	0.1898	0.4812	276.1	-1 534c	26 534		
41 606	16 480	44.83	25.66	96.35	0.2687	0.1537	0.5774	255.7	-1 550c	30 550		
-1 484c	16 485	24.82	16.65	96.35	0.18	0.1208	0.699	237.5	10 454	32 560	mir	
-1 490c	18 490	24.98	19.44	99.83	0.1731	0.1348	0.692	234.3	11 459	32 562		
-1 495c	19 495	25.0	21.18	100.89	0.1699	0.144	0.6859	232.4	12 461	32 563		
-1 499c	19 500	25.0	21.18	100.89	0.1699	0.144	0.6859	232.4	12 461	32 563		
-1 510c	22 510	25.36	28.05	102.59	0.1625	0.1798	0.6576	225.0	13 466	33 566		
-1 519c	23 520	25.73	30.89	102.87	0.1613	0.1936	0.6449	222.0	13 468	33 568	Bm	
-1 530c	26 530	28.19	40.95	103.32	0.1634	0.2374	0.599	211.8	14 472	34 573		
-1 539c	27 540	29.52	44.64	103.39	0.1662	0.2514	0.5823	208.3	14 473	35 576		
-1 544c	28 545	31.12	48.41	103.43	0.1701	0.2645	0.5652	204.8	14 474	35 578		
-1 549c	29 550	33.02	52.23	103.45	0.175	0.2767	0.5482	201.3	15 475	36 580		
-1 555c	31 555	37.69	59.79	103.47	0.1875	0.2975	0.5148	194.8	15 476	37 586		
10 451	32 560	30.55	61.82	53.28	0.2097	0.4244	0.3658	138.0	18 491	-1 491c		
W0 380	770	94.81	100.0	107.33	0.3137	0.3309	0.3552	0.0				
N0 380	770	3.79	4.0	4.29	0.3137	0.3309	0.3552	0.0				

CEX30-7N

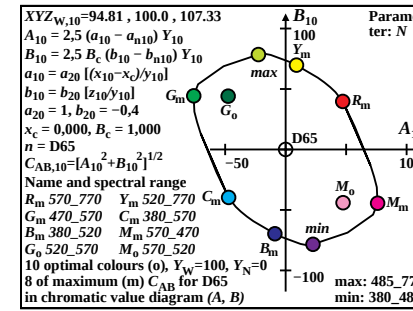
TUB-test chart CEX3; Hue circle of the *Ostwald* optimal colours with Y values, $Y_N,10=0,0$, $Y_W,10=100$
Ostwald optimal colour data: XYZ and eight different colour diagrams, D65-10



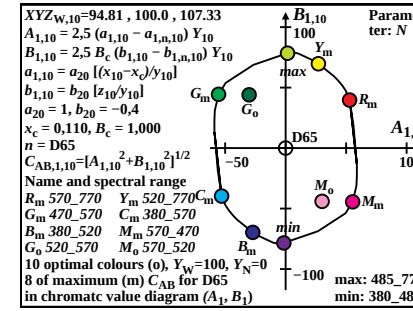
CEX31-1N



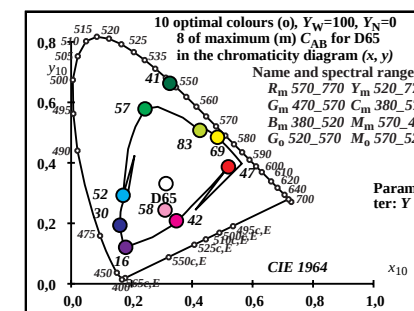
CEX31-3N



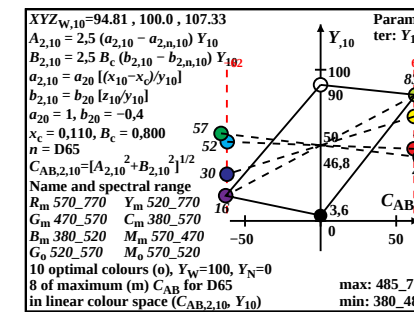
CEX31-5N



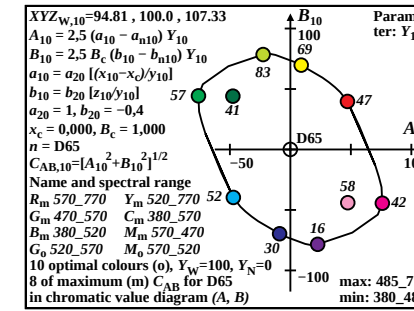
CEX31-7N



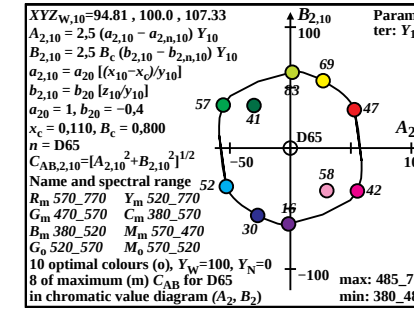
CEX31-2N



CEX31-4N



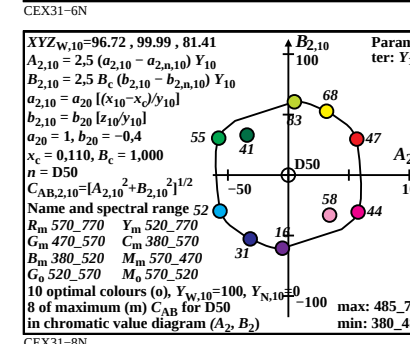
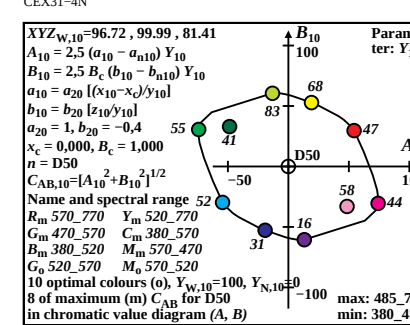
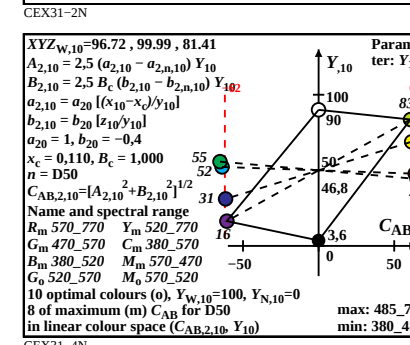
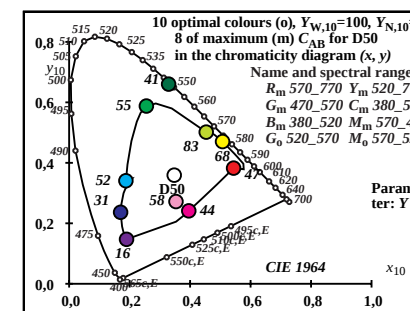
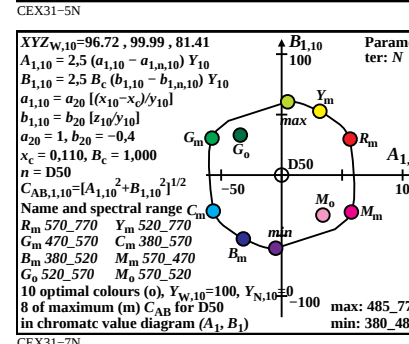
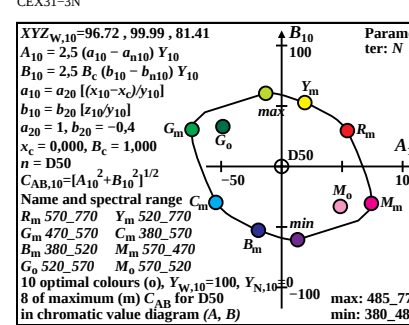
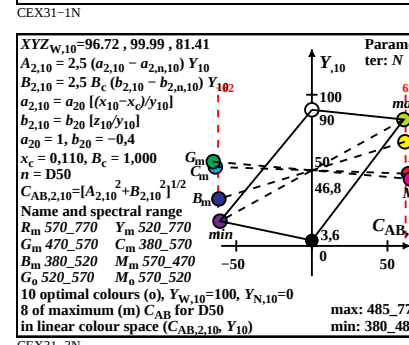
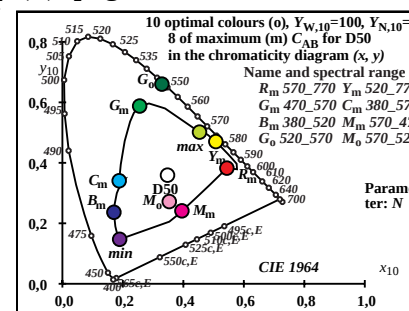
CEX31-6N



CEX31-8N

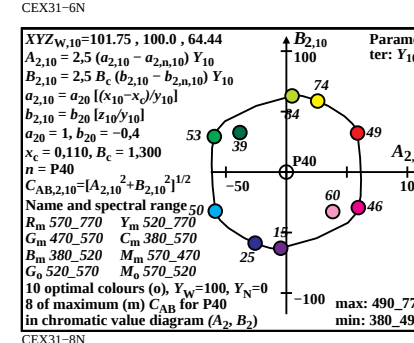
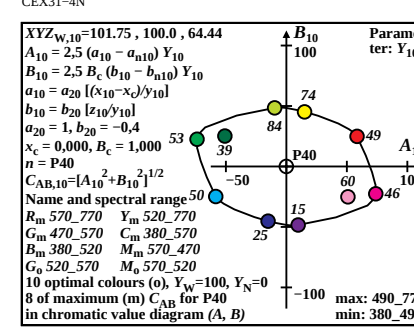
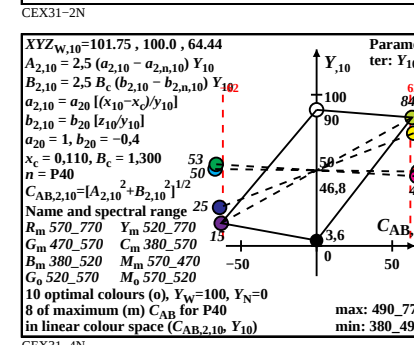
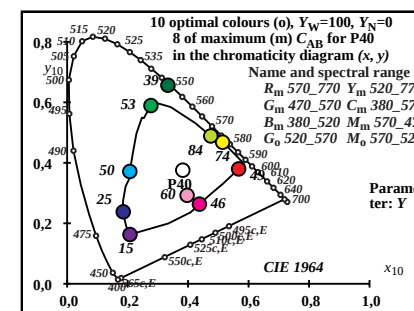
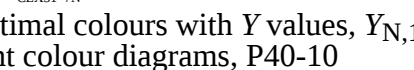
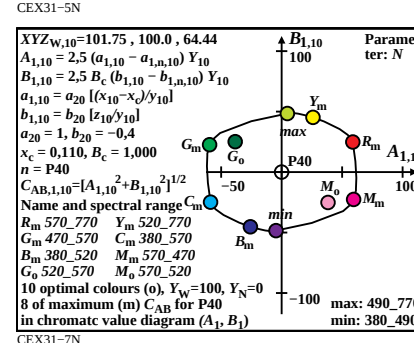
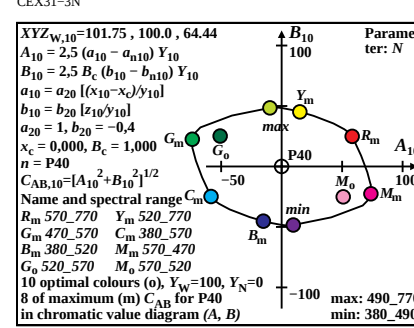
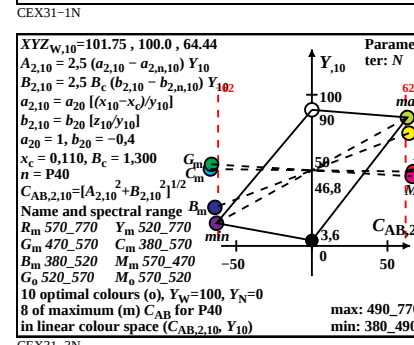
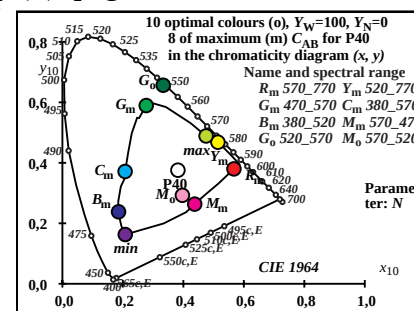
Ostwald optimal colours (o), maximum (m) C _{AB,10} for D50, Y _{N,10} =0, Y _{W,10} =100, Y _m =520_770												
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d , λ _d	i _c , λ _c	Cod	
1 405	31 559	28.77	52.22	72.23	0.1877	0.3408	0.4713	186.6	15 479	37 589	Cm	
7 435	32 561	25.52	52.17	54.58	0.1929	0.3944	0.4126	167.2	16 484	58 693		
10 450	32 562	22.92	52.53	35.78	0.206	0.4722	0.3216	141.4	18 493	-1 493c		
12 460	32 564	22.3	53.42	23.9	0.2238	0.5362	0.2399	125.0	20 503	-1 503c		
13 465	33 566	22.58	54.02	18.94	0.2363	0.5653	0.1982	118.3	22 511	-1 511c		
14 470	34 570	24.23	55.74	14.84	0.2555	0.5878	0.1565	111.9	24 521	-1 521c	Gm	
15 475	35 576	28.45	59.22	11.63	0.2865	0.5963	0.1171	104.4	26 531	-1 531c		
16 480	38 590	38.86	66.38	9.23	0.3394	0.5798	0.0806	92.1	28 543	-1 543c		
17 485	-1 485c	75.6	83.6	7.49	0.4535	0.5015	0.0449	53.2	32 563	11 458	max	
18 490	-1 490c	75.56	82.31	6.23	0.4604	0.5015	0.038	51.5	32 564	12 460		
19 495	-1 495c	75.54	80.77	5.3	0.4674	0.4997	0.0328	49.4	33 565	12 462		
20 500	-1 500c	75.51	78.97	4.61	0.4746	0.4963	0.029	47.1	33 566	12 464		
21 510	-1 509c	75.41	76.89	4.12	0.4821	0.4915	0.0263	44.4	33 567	13 466		
24 520	-1 520c	74.32	68.91	3.31	0.5071	0.4702	0.0225	34.7	34 571	14 471	Ym	
25 530	-1 529c	73.54	65.66	3.17	0.5165	0.4611	0.0222	31.0	34 573	14 473		
28 540	-1 540c	69.61	54.85	2.96	0.5462	0.4304	0.0232	19.6	35 579	15 476		
29 545	-1 545c	67.71	51.04	2.94	0.5563	0.4194	0.0241	16.0	36 581	15 477		
29 550	-1 549c	67.71	51.04	2.94	0.5563	0.4194	0.0241	16.0	36 581	15 477		
31 555	-1 555c	62.98	43.4	2.93	0.5761	0.397	0.0268	9.3	37 587	15 479		
32 560	2 411	60.53	39.71	4.59	0.5773	0.3787	0.0438	4.7	38 591	16 480		
31 559	1 405	67.95	47.77	9.17	0.544	0.3824	0.0734	6.6	37 589	15 479	Rm	
32 561	7 435	71.2	47.82	26.82	0.4881	0.3278	0.1839	347.3	58 693	16 484		
32 562	10 450	73.8	47.46	45.63	0.4422	0.2843	0.2733	321.5	-1 493c	18 493		
32 564	12 460	74.42	46.57	57.5	0.4169	0.2609	0.3221	305.0	-1 503c	20 503		
33 566	13 465	74.13	45.97	62.46	0.406	0.2518	0.3421	298.4	-1 511c	22 511		
34 570	14 470	72.48	44.25	66.56	0.3954	0.2414	0.3631	292.0	-1 521c	24 521	Mm	
35 576	15 475	68.26	40.77	69.77	0.3817	0.228	0.3902	284.5	-1 531c	26 531		
38 590	16 480	57.86	33.61	72.17	0.3535	0.2054	0.441	272.1	-1 543c	28 543		
-1 485c	17 485	21.12	16.39	73.91	0.1895	0.1471	0.6633	233.3	11 458	32 563	mir	
-1 490c	18 490	21.15	17.68	75.17	0.1855	0.1551	0.6593	231.5	12 460	32 564		
-1 495c	19 495	21.17	19.22	76.1	0.1817	0.165	0.6532	229.5	12 462	33 565		
-1 500c	20 500	21.21	21.02	76.79	0.1781	0.1766	0.6451	227.1	12 464	33 566		
-1 509c	21 510	21.3	23.1	77.28	0.175	0.1898	0.635	224.5	13 466	33 567		
-1 520c	24 520	22.39	31.08	78.1	0.1702	0.2362	0.5935	214.7	14 471	34 571	Bm	
-1 529c	25 530	23.18	34.33	78.24	0.1707	0.2529	0.5763	211.0	14 473	34 573		
-1 540c	28 540	27.11	45.14	78.44	0.1799	0.2995	0.5205	199.6	15 476	35 579		
-1 545c	29 545	29.01	48.95	78.46	0.1854	0.3129	0.5016	196.0	15 477	36 581		
-1 549c	29 550	29.01	48.95	78.46	0.1854	0.3129	0.5016	196.0	15 477	36 581		
-1 555c	31 555	33.73	56.59	78.48	0.1998	0.3352	0.4648	189.3	15 479	37 587		
2 411	32 560	36.19	60.28	76.81	0.2088	0.3478	0.4432	184.7	16 480	38 591		
W0	380 770	96.72	99.99	81.41	0.3477	0.3595	0.2927	0.0				
N0	380 770	3.86	3.99	3.25	0.3477	0.3595	0.2927	0.0				

TUB-test chart CEX3; Hue circle of the *Ostwald* optimal colours with Y values, $Y_{N,10}=0,0$, $Y_{W,10}=100$
Ostwald optimal colour data: XYZ and eight different colour diagrams, D50-10



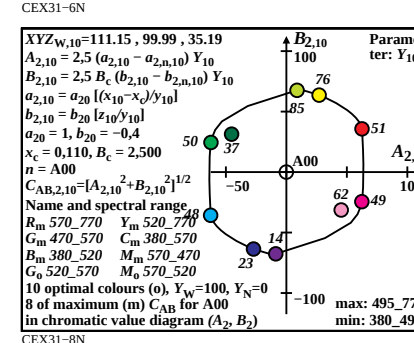
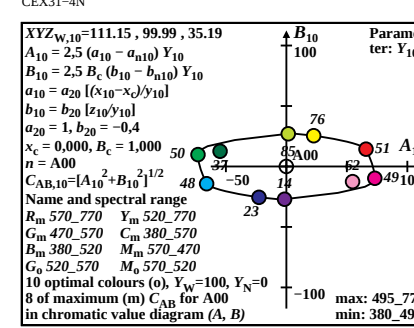
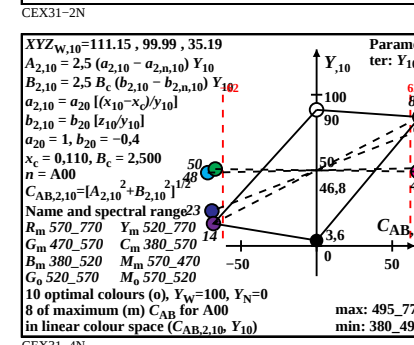
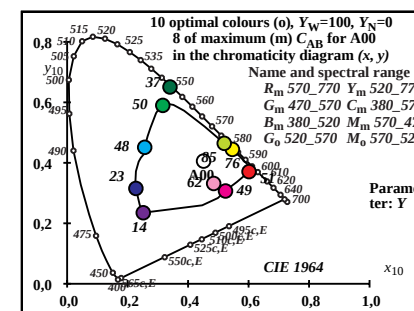
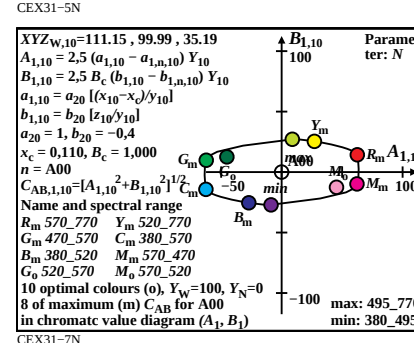
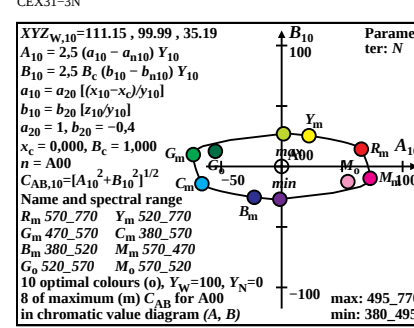
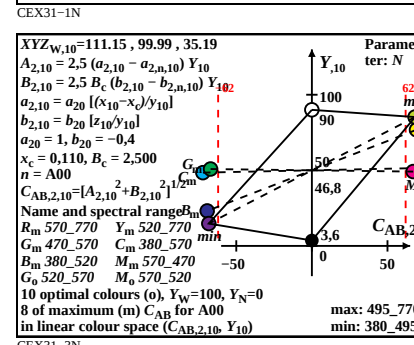
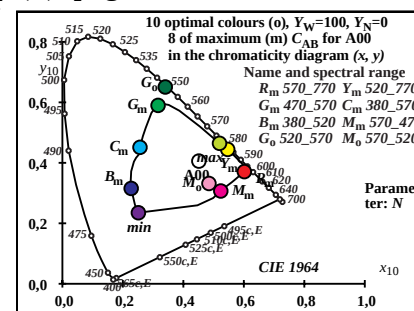
Ostwald optimal colours (o), maximum (m) C _{AB,10} for P40, Y _{N,10} =0, Y _{W,10} =100, Y _m =520_770														
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d , λ _d	i _c , λ _c	Cod			
0 405	32 563	28.38	50.84	57.63	0.2073	0.3714	0.4211	181.3	16 481	38 591	Cm			
7 435	32 564	25.81	51.21	41.95	0.2169	0.4304	0.3526	161.6	17 487	-1 487c				
10 450	33 565	23.49	50.96	28.01	0.2292	0.4973	0.2733	141.4	19 495	-1 495c				
12 460	33 567	23.28	51.74	19.21	0.247	0.549	0.2039	127.9	21 505	-1 505c				
12 465	33 568	24.59	53.16	19.21	0.2536	0.5482	0.1981	126.6	21 506	-1 506c				
14 470	34 571	25.37	53.98	12.21	0.277	0.5895	0.1334	116.1	24 521	-1 521c	Gm			
15 475	35 576	28.62	56.62	9.69	0.3014	0.5963	0.1021	110.0	26 531	-1 531c				
16 480	37 585	36.42	62.18	7.77	0.3424	0.5845	0.073	100.7	28 541	-1 541c				
17 485	42 611	59.99	75.11	6.32	0.4242	0.531	0.0446	74.8	31 557	-1 557c				
17 490	-1 489c	82.56	84.95	6.32	0.4749	0.4887	0.0363	50.6	33 566	11 458	max			
19 495	-1 495c	82.51	82.52	4.43	0.4868	0.4869	0.0261	46.7	33 568	12 463				
20 500	-1 500c	82.48	80.95	3.84	0.493	0.4839	0.0229	44.3	33 569	13 465				
22 510	-1 510c	82.21	76.99	3.08	0.5065	0.4743	0.019	38.4	34 571	13 469				
23 520	-1 519c	81.9	74.56	2.84	0.514	0.468	0.0178	34.9	34 572	14 471	Ym			
25 530	-1 529c	80.69	68.91	2.54	0.5303	0.4529	0.0167	27.5	35 575	14 474				
28 540	-1 540c	77.0	58.8	2.35	0.5573	0.4256	0.017	15.9	36 581	15 477				
28 545	-1 544c	77.0	58.8	2.35	0.5573	0.4256	0.017	15.9	36 581	15 477				
30 550	-1 550c	73.03	51.42	2.32	0.576	0.4055	0.0183	8.7	37 585	15 479				
31 555	-1 555c	70.52	47.62	2.32	0.5853	0.3953	0.0192	5.5	37 587	16 480				
31 560	-1 559c	70.52	47.62	2.32	0.5853	0.3953	0.0192	5.5	37 587	16 480				
32 563	0 405	73.36	49.15	6.81	0.5672	0.38	0.0526	1.3	38 591	16 481	Rm			
32 564	7 435	75.93	48.78	22.48	0.5158	0.3313	0.1527	341.6	-1 487c	17 487				
33 565	10 450	78.25	49.03	36.43	0.4779	0.2994	0.2225	321.5	-1 495c	19 495				
33 567	12 460	78.46	48.25	45.22	0.4563	0.2806	0.263	307.9	-1 505c	21 505				
33 568	12 465	77.15	46.83	45.22	0.4559	0.2767	0.2672	306.7	-1 506c	21 506				
34 571	14 470	76.37	46.01	52.23	0.4373	0.2635	0.299	296.2	-1 521c	24 521	Mm			
35 576	15 475	73.12	43.37	54.75	0.427	0.2532	0.3197	290.1	-1 531c	26 531				
37 585	16 480	65.32	37.81	56.67	0.4087	0.2366	0.3546	280.8	-1 541c	28 541				
42 611	17 485	41.75	24.88	58.12	0.3346	0.1994	0.4658	254.9	-1 557c	31 557				
-1 489c	17 490	19.19	15.04	58.12	0.2077	0.1629	0.6293	230.6	11 458	33 566	min			
-1 495c	19 495	19.23	17.47	60.0	0.1988	0.1807	0.6204	226.7	12 463	33 568				
-1 500c	20 500	19.26	19.04	60.6	0.1947	0.1925	0.6126	224.3	13 465	33 569				
-1 510c	22 510	19.53	23.0	61.35	0.1879	0.2214	0.5905	218.4	13 469	34 571				
-1 519c	23 520	19.85	25.43	61.59	0.1857	0.2379	0.5763	215.0	14 471	34 572	Bm			
-1 529c	25 530	21.05	31.08	61.9	0.1846	0.2725	0.5427	207.5	14 474	35 575				
-1 540c	28 540	24.74	41.19	62.09	0.1932	0.3217	0.4849	195.9	15 477	36 581				
-1 544c	28 545	24.74	41.19	62.09	0.1932	0.3217	0.4849	195.9	15 477	36 581				
-1 550c	30 550	28.71	48.57	62.12	0.2059	0.3484	0.4456	188.7	15 479	37 585				
-1 555c	31 555	31.22	52.37	62.12	0.2142	0.3593	0.4263	185.5	16 480	37 587				
-1 559c	31 560	31.22	52.37	62.12	0.2142	0.3593	0.4263	185.5	16 480	37 587				
W0 380	770	101.75	100.0	64.44	0.3822	0.3756	0.2421	0.0						
N0 380	770	4.07	4.0	2.57	0.3822	0.3756	0.2421	0.0						

TUB-test chart CEX3; Hue circle of the Ostwald optimal colours with Y values, $Y_N,10=0,0$, $Y_W,10=100$
Ostwald optimal colour data: XYZ and eight different colour diagrams, P40-10



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	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d , λ _d	i _c , λ _c	Cod		
1	405 34 570	27.52	48.47	31.35	0.2563	0.4515	0.2921	166.8	17 487	39 597	Cm		
7	435 34 570	26.55	48.7	24.51	0.2661	0.4881	0.2457	156.0	18 491	47 637			
9	450 34 571	26.19	49.04	19.81	0.2755	0.5159	0.2084	147.9	19 495	-1 495c			
12	460 34 572	25.7	49.34	12.31	0.2942	0.5648	0.1409	134.6	21 505	-1 505c			
13	465 34 573	26.17	49.86	10.05	0.304	0.5792	0.1167	130.3	22 512	-1 512c			
14	470 34 574	27.27	50.84	8.08	0.3163	0.5897	0.0938	126.2	24 520	-1 520c	Gm		
15	475 35 576	28.77	51.89	6.49	0.3301	0.5953	0.0744	122.5	25 528	-1 528c			
16	480 36 581	32.38	54.48	5.23	0.3516	0.5915	0.0568	118.1	27 537	-1 537c			
17	485 37 588	40.39	59.75	4.25	0.3869	0.5723	0.0407	111.0	29 547	-1 547c			
18	490 41 609	62.98	72.01	3.5	0.4547	0.5199	0.0253	88.1	32 561	-1 561c			
19	495 -1 495c	95.34	85.22	2.92	0.5195	0.4644	0.0159	40.5	34 573	13 465	max		
20	500 -1 500c	95.31	84.06	2.49	0.524	0.4622	0.0136	37.6	34 573	13 468			
21	510 -1 509c	95.25	82.67	2.16	0.5289	0.459	0.0119	34.3	34 574	14 470			
24	520 -1 520c	94.44	76.82	1.57	0.5464	0.4444	0.0091	22.0	35 577	15 476	Ym		
25	530 -1 529c	93.84	74.33	1.46	0.5531	0.4381	0.0086	17.5	35 578	15 477			
27	540 -1 539c	91.91	68.55	1.33	0.568	0.4236	0.0082	8.6	36 581	16 480			
29	545 -1 545c	88.83	61.89	1.27	0.5843	0.4071	0.0084	0.5	37 585	16 483			
30	550 -1 550c	86.77	58.32	1.26	0.5928	0.3984	0.0086	356.9	37 587	16 484			
31	555 -1 555c	84.3	54.59	1.26	0.6014	0.3895	0.009	353.7	37 589	17 485			
32	560 -1 560c	81.4	50.77	1.26	0.61	0.3804	0.0094	350.9	38 592	17 486			
34	570 1 405	83.62	51.52	3.84	0.6016	0.3707	0.0276	346.8	39 597	17 487	Rm		
34	570 7 435	84.59	51.29	10.68	0.5771	0.3499	0.0728	336.0	47 637	18 491			
34	571 9 450	84.95	50.95	15.38	0.5615	0.3368	0.1016	327.9	-1 495c	19 495			
34	572 12 460	85.44	50.65	22.88	0.5374	0.3186	0.1439	314.6	-1 505c	21 505			
34	573 13 465	84.97	50.13	25.14	0.5302	0.3128	0.1569	310.3	-1 512c	22 512			
34	574 14 470	83.87	49.15	27.11	0.5237	0.3069	0.1692	306.2	-1 520c	24 520	Mm		
35	576 15 475	82.37	48.1	28.7	0.5174	0.3022	0.1803	302.6	-1 528c	25 528			
36	581 16 480	78.76	45.51	29.96	0.5106	0.295	0.1942	298.2	-1 537c	27 537			
37	588 17 485	70.75	40.24	30.94	0.4984	0.2835	0.218	291.1	-1 547c	29 547			
41	609 18 490	48.16	27.98	31.69	0.4465	0.2595	0.2938	268.2	-1 561c	32 561			
-1 495c	19 495	15.8	14.77	32.27	0.2515	0.235	0.5134	220.5	13 465	34 573	mir		
-1 500c	20 500	15.83	15.93	32.7	0.2455	0.247	0.5073	217.6	13 468	34 573			
-1 509c	21 510	15.89	17.32	33.03	0.2399	0.2614	0.4986	214.3	14 470	34 574			
-1 520c	24 520	16.7	23.17	33.62	0.2272	0.3152	0.4574	202.0	15 476	35 577	Bm		
-1 529c	25 530	17.3	25.66	33.73	0.2256	0.3346	0.4397	197.5	15 477	35 578			
-1 539c	27 540	19.23	31.44	33.86	0.2274	0.3719	0.4005	188.6	16 480	36 581			
-1 545c	29 545	22.31	38.1	33.92	0.2365	0.4038	0.3595	180.5	16 483	37 585			
-1 550c	30 550	24.37	41.67	33.93	0.2437	0.4168	0.3393	176.9	16 484	37 587			
-1 555c	31 555	26.84	45.4	33.93	0.2528	0.4276	0.3195	173.7	17 485	37 589			
-1 560c	32 560	29.74	49.22	33.93	0.2634	0.436	0.3005	170.8	17 486	38 592			
W0	380 770	111.15	99.99	35.19	0.4511	0.4059	0.1428	0.0					
N0	380 770	4.44	3.99	1.4	0.4511	0.4059	0.1428	0.0					

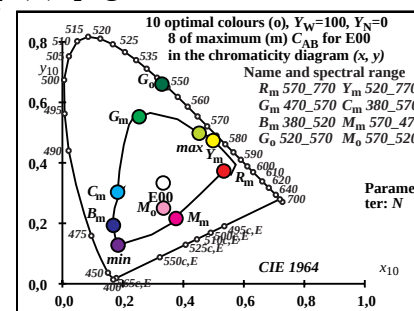
TUB-test chart CEX3; Hue circle of the *Ostwald* optimal colours with Y values, $Y_N,10=0,0$, $Y_W,10=100$
Ostwald optimal colour data: XYZ and eight different colour diagrams, A00-10



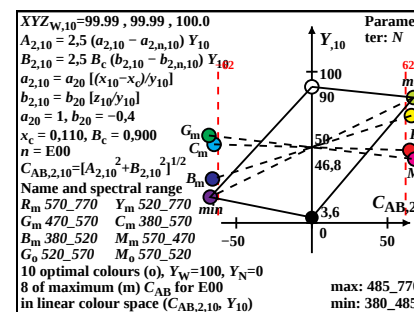
Ostwald optimal colours (o), maximum (m) C _{AB,10} for E00, Y _{N,10} =0, Y _{W,10} =100, Y _m =520_770												
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d , λ _d	i _c , λ _c	Code	
1 405	31 559	31.26	51.95	88.06	0.1825	0.3033	0.5141	191.2	15 477	37 589	Cm	
7 435	32 561	26.15	51.88	60.5	0.1887	0.3744	0.4367	164.0	16 484	-1 484c		
10 450	32 562	23.14	52.37	38.45	0.203	0.4595	0.3373	135.8	18 493	-1 493c		
12 460	33 565	22.23	53.04	25.59	0.2204	0.5258	0.2537	120.3	21 505	-1 505c		
13 465	33 568	23.41	54.6	20.27	0.2381	0.5555	0.2062	113.1	23 515	-1 515c		
13 470	34 572	26.59	57.82	20.27	0.254	0.5523	0.1936	109.8	24 520	-1 520c	Gm	
14 475	36 581	32.09	62.4	15.92	0.2906	0.5651	0.1442	100.3	26 532	-1 532c		
16 480	40 604	51.14	73.1	10.1	0.3806	0.5441	0.0751	77.3	30 551	-1 551c		
17 485	-1 485c	75.4	82.92	8.27	0.4525	0.4977	0.0496	54.0	32 564	11 456	max	
18 490	-1 490c	75.36	81.56	6.95	0.4598	0.4977	0.0424	52.3	32 564	11 458		
19 495	-1 495c	75.35	79.98	5.98	0.467	0.4957	0.0371	50.5	33 565	12 460		
20 500	-1 500c	75.31	78.14	5.28	0.4744	0.4922	0.0333	48.3	33 566	12 462		
22 510	-1 510c	75.01	73.64	4.42	0.49	0.481	0.0289	43.2	33 569	13 466		
23 520	-1 519c	74.66	70.96	4.15	0.4984	0.4737	0.0277	40.3	34 570	13 468	Ym	
25 530	-1 529c	73.37	64.88	3.83	0.5163	0.4566	0.0269	33.9	34 573	14 470		
27 540	-1 539c	71.1	58.06	3.67	0.5352	0.437	0.0276	27.1	35 577	14 473		
29 545	-1 545c	67.75	50.8	3.61	0.5545	0.4158	0.0295	20.4	36 582	15 475		
29 550	-1 549c	67.75	50.8	3.61	0.5545	0.4158	0.0295	20.4	36 582	15 475		
31 555	-1 555c	63.19	43.42	3.6	0.5733	0.394	0.0326	14.1	37 587	15 476		
32 560	3 415	61.58	39.88	9.01	0.5574	0.3609	0.0816	7.0	38 594	15 478		
31 559	1 405	68.72	48.04	11.94	0.5339	0.3732	0.0927	11.2	37 589	15 477	Rm	
32 561	7 435	73.83	48.11	39.5	0.4573	0.298	0.2446	344.1	-1 484c	16 484		
32 562	10 450	76.84	47.62	61.55	0.413	0.256	0.3309	315.9	-1 493c	18 493		
33 565	12 460	77.75	46.95	74.41	0.3904	0.2358	0.3737	300.4	-1 505c	21 505		
33 568	13 465	76.58	45.39	79.73	0.3796	0.225	0.3953	293.2	-1 515c	23 515		
34 572	13 470	73.39	42.17	79.73	0.3757	0.2159	0.4082	289.9	-1 520c	24 520	Mm	
36 581	14 475	67.89	37.59	84.08	0.3581	0.1983	0.4435	280.4	-1 532c	26 532		
40 604	16 480	48.85	26.89	89.9	0.2949	0.1623	0.5427	257.3	-1 551c	30 551		
-1 485c	17 485	24.58	17.07	91.73	0.1842	0.1279	0.6877	234.0	11 456	32 564	min	
-1 490c	18 490	24.62	18.43	93.05	0.1808	0.1354	0.6836	232.4	11 458	32 564		
-1 495c	19 495	24.63	20.01	94.02	0.1776	0.1443	0.678	230.5	12 460	33 565		
-1 500c	20 500	24.67	21.85	94.72	0.1746	0.1547	0.6706	228.4	12 462	33 566		
-1 510c	22 510	24.97	26.35	95.58	0.1699	0.1793	0.6506	223.3	13 466	33 569		
-1 519c	23 520	25.32	29.03	95.84	0.1685	0.1932	0.6381	220.3	13 468	34 570	Bm	
-1 529c	25 530	26.61	35.11	96.17	0.1685	0.2223	0.609	213.9	14 470	34 573		
-1 539c	27 540	28.88	41.93	96.33	0.1727	0.2508	0.5763	207.2	14 473	35 577		
-1 545c	29 545	32.23	49.19	96.39	0.1812	0.2766	0.5421	200.4	15 475	36 582		
-1 549c	29 550	32.23	49.19	96.39	0.1812	0.2766	0.5421	200.4	15 475	36 582		
-1 555c	31 555	36.8	56.57	96.4	0.1939	0.298	0.5079	194.1	15 476	37 587		
3 415	32 560	38.4	60.11	90.99	0.2026	0.3172	0.4801	187.0	15 478	38 594		
W0 380	770	99.99	99.99	100.0	0.3333	0.3333	0.3333	0.0				
N0 380	770	3.99	3.99	4.0	0.3333	0.3333	0.3333	0.0				

CEX30-7N

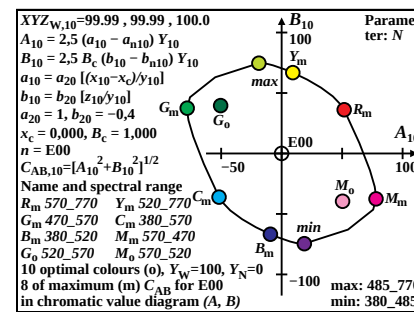
TUB-test chart CEX3; Hue circle of the *Ostwald* optimal colours with Y values, $Y_N,10=0,0$, $Y_W,10=100$
Ostwald optimal colour data: XYZ and eight different colour diagrams, E00-10



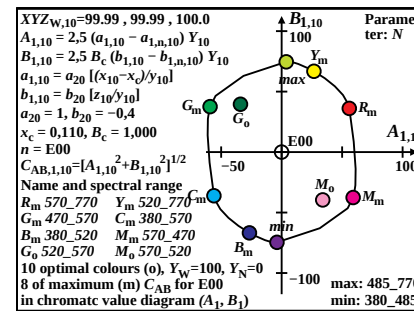
CEX31-1N



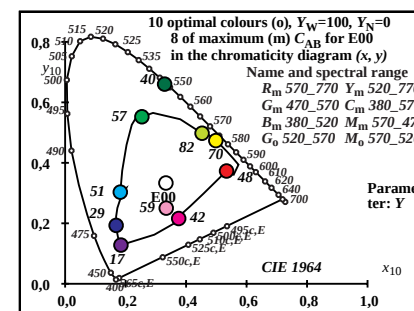
CEX31-3N



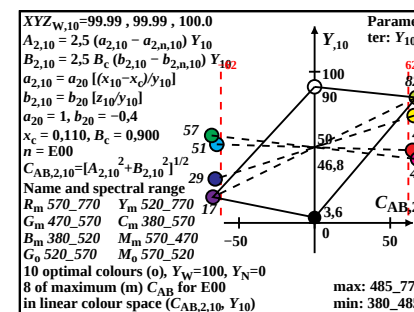
CEX31-5N



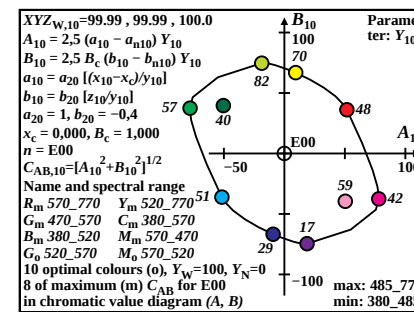
CEX31-7N



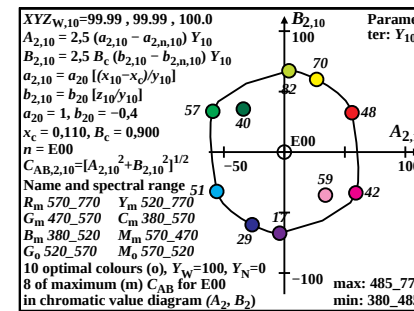
CEX31-2N



CEX31-4N



CEX31-6N

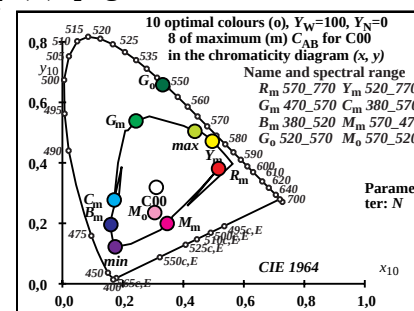


CEX31-8N

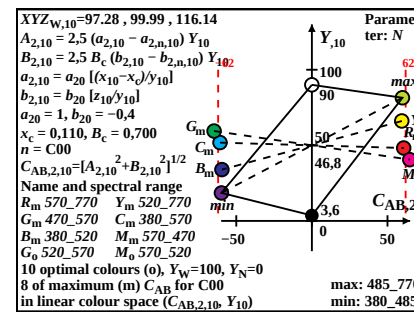
Ostwald optimal colours (o), maximum (m) $C_{AB,10}$ for C00, $Y_N,10=0$, $Y_W,10=100$, $Y_m=520\text{--}770$															
i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code				
1	405	31	556	31.98	51.78	103.14	0.1711	0.277	0.5518	196.8	15 475	37 586	Cm		
6	435	31	558	28.66	52.82	81.59	0.1757	0.3239	0.5003	177.9	16 480	44 624			
9	450	32	560	24.39	53.05	55.15	0.1839	0.4	0.4159	147.3	17 487	-1 487c			
12	460	32	563	22.19	54.1	30.54	0.2077	0.5063	0.2858	118.6	20 504	-1 504c			
12	465	33	566	24.0	56.19	30.54	0.2167	0.5074	0.2758	116.4	21 507	-1 507c			
13	470	34	572	26.86	59.45	24.02	0.2434	0.5388	0.2176	106.9	23 519	-1 519c	Gm		
14	475	36	582	33.85	65.18	18.67	0.2876	0.5537	0.1586	95.5	26 534	-1 534c			
16	480	44	622	60.31	78.48	11.51	0.4012	0.5221	0.0766	65.8	31 556	0 404			
17	485	-1	485c	70.72	81.46	9.3	0.4379	0.5044	0.0576	55.4	32 562	11 456	max		
18	490	-1	490c	70.67	79.85	7.73	0.4465	0.5045	0.0488	53.6	32 563	11 459			
19	495	-1	495c	70.66	78.05	6.63	0.4548	0.5024	0.0427	51.7	32 564	12 461			
20	500	-1	500c	70.62	76.06	5.87	0.4629	0.4985	0.0384	49.6	33 565	12 463			
22	510	-1	510c	70.32	71.49	4.98	0.479	0.4869	0.0339	44.8	33 567	13 466			
24	520	-1	520c	69.46	66.06	4.54	0.4959	0.4716	0.0324	39.4	34 570	13 468	Ym		
26	530	-1	530c	67.74	59.74	4.32	0.5139	0.4532	0.0327	33.3	34 574	14 471			
28	540	-1	540c	64.9	52.56	4.21	0.5334	0.4319	0.0346	26.8	35 578	14 473			
28	545	-1	544c	64.9	52.56	4.21	0.5334	0.4319	0.0346	26.8	35 578	14 473			
29	550	-1	549c	63.02	48.76	4.19	0.5433	0.4204	0.0361	23.5	36 580	14 474			
31	555	-1	555c	58.23	41.03	4.18	0.5629	0.3966	0.0404	17.0	37 585	15 475			
31	560	9	447	68.2	42.55	54.35	0.4131	0.2577	0.3291	329.1	-1 487c	17 487			
31	556	1	405	65.29	48.21	13.0	0.5161	0.3811	0.1027	16.7	37 586	15 475	Rm		
31	558	6	435	68.62	47.17	34.55	0.4564	0.3137	0.2298	357.9	44 624	16 480			
32	560	9	450	72.88	46.94	60.98	0.4031	0.2596	0.3372	327.3	-1 487c	17 487			
32	563	12	460	75.08	45.89	85.59	0.3634	0.2221	0.4143	298.7	-1 504c	20 504			
33	566	12	465	73.27	43.8	85.59	0.3615	0.2161	0.4223	296.4	-1 507c	21 507			
34	572	13	470	70.42	40.54	92.12	0.3467	0.1996	0.4536	286.9	-1 519c	23 519	Mm		
36	582	14	475	63.43	34.81	97.47	0.324	0.1778	0.498	275.5	-1 534c	26 534			
44	622	16	480	36.96	21.51	104.62	0.2266	0.1319	0.6414	245.9	0 404	31 556			
-1	485c	17	485	26.56	18.53	106.83	0.1748	0.122	0.7031	235.4	11 456	32 562	min		
-1	490c	18	490	26.6	20.14	108.41	0.1714	0.1298	0.6987	233.7	11 459	32 563			
-1	495c	19	495	26.62	21.94	109.51	0.1684	0.1388	0.6927	231.7	12 461	32 564			
-1	500c	20	500	26.66	23.93	110.27	0.1657	0.1487	0.6854	229.6	12 463	33 565			
-1	510c	22	510	26.96	28.5	111.15	0.1618	0.171	0.667	224.9	13 466	33 567			
-1	520c	24	520	27.82	33.93	111.6	0.1604	0.1957	0.6437	219.4	13 468	34 570	Bm		
-1	530c	26	530	29.54	40.25	111.82	0.1626	0.2216	0.6157	213.4	14 471	34 574			
-1	540c	28	540	32.37	47.43	111.92	0.1688	0.2473	0.5837	206.8	14 473	35 578			
-1	544c	28	545	32.37	47.43	111.92	0.1688	0.2473	0.5837	206.8	14 473	35 578			
-1	549c	29	550	34.26	51.23	111.95	0.1735	0.2594	0.5669	203.5	14 474	36 580			
-1	555c	31	555	39.05	58.96	111.96	0.1859	0.2808	0.5332	197.0	15 475	37 585			
9	447	31	560	29.07	57.44	61.79	0.196	0.3873	0.4166	149.1	17 487	-1 487c			
W0	380	770	97.28	99.99	116.14	0.3103	0.319	0.3705	0.0						
N0	380	770	3.89	3.99	4.64	0.3103	0.319	0.3705	0.0						

CEX30-7N

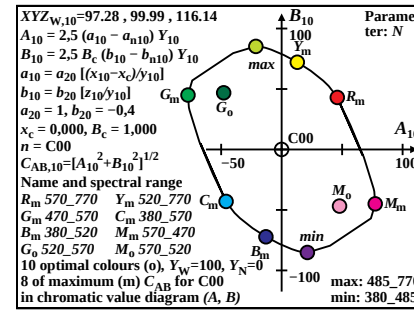
TUB-test chart CEX3; Hue circle of the *Ostwald* optimal colours with Y values, $Y_N,10=0,0$, $Y_W,10=100$
Ostwald optimal colour data: XYZ and eight different colour diagrams, C00-10



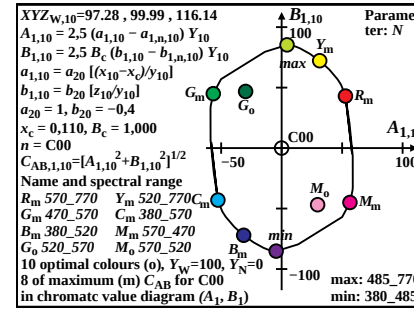
CEX31-1N



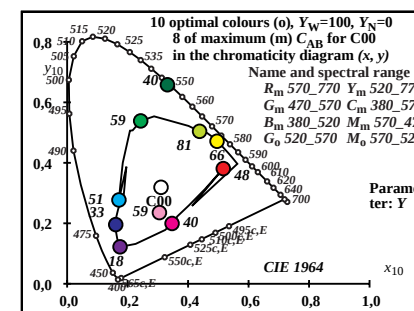
CEX31-3N



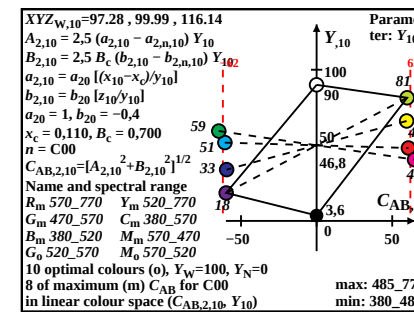
CEX31-5N



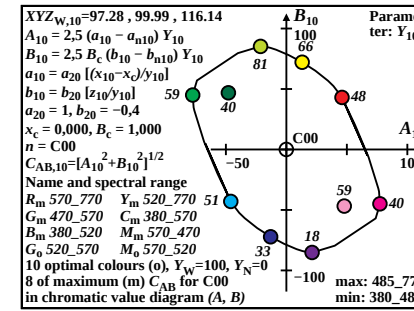
CEX31-7N



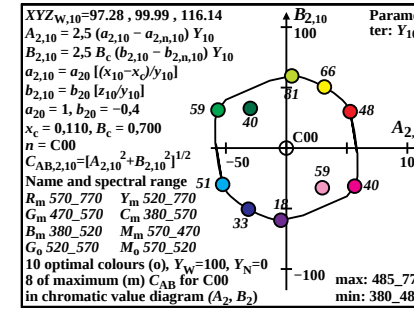
CEX31-2N



CEX31-4N



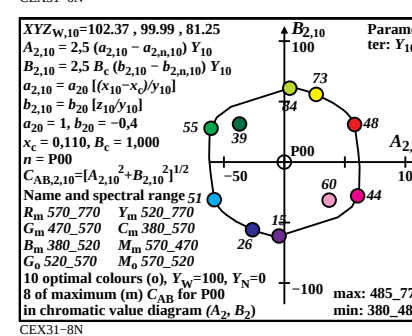
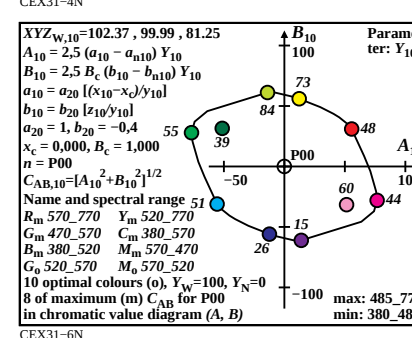
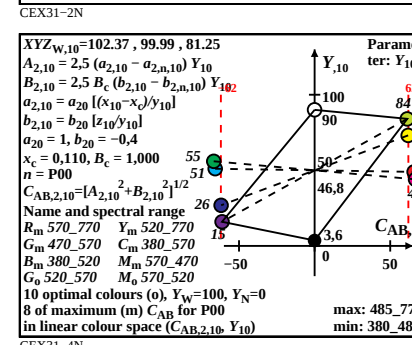
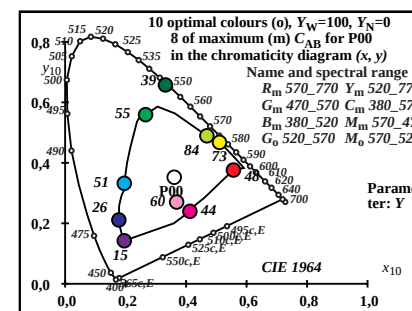
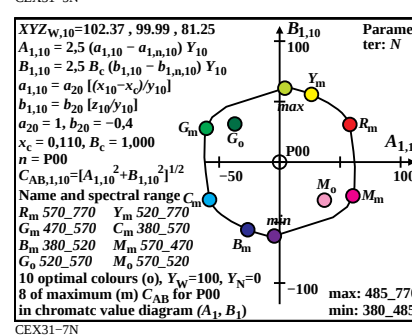
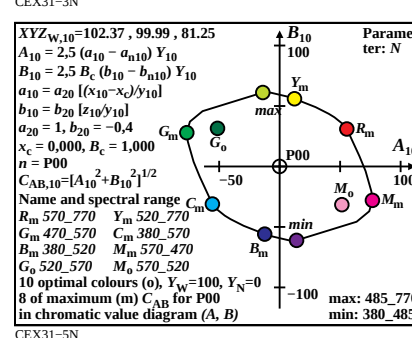
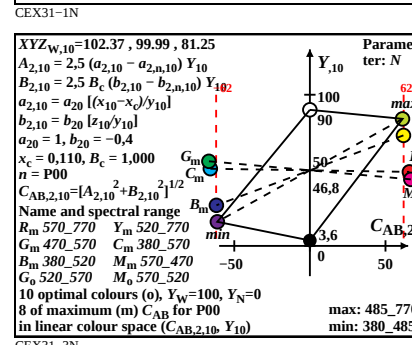
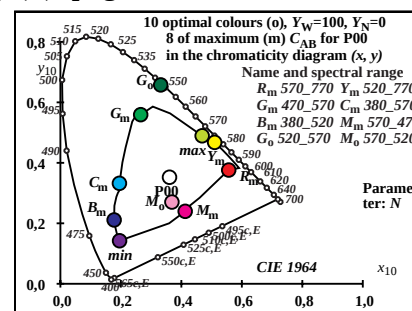
CEX31-6N



CEX31-8N

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	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code				
0	405	32	562	30.0	51.03	72.5	0.1954	0.3323	0.4722	186.9	15 479	38 591	Cm		
7	435	32	563	26.27	51.44	50.42	0.205	0.4014	0.3935	162.5	17 485	-1 485c			
9	450	32	564	24.93	52.14	38.52	0.2157	0.451	0.3332	145.8	18 491	-1 491c			
12	460	33	567	23.14	52.25	21.98	0.2377	0.5365	0.2257	123.7	21 505	-1 505c			
13	465	33	569	24.08	53.51	17.5	0.2532	0.5626	0.184	117.1	23 515	-1 515c			
13	470	34	572	26.6	55.97	17.5	0.2658	0.5592	0.1748	114.6	23 518	-1 518c	Gm		
15	475	35	579	30.79	59.06	10.93	0.3055	0.5859	0.1084	103.3	26 534	-1 534c			
16	480	38	593	43.2	67.08	8.77	0.3628	0.5634	0.0736	89.4	29 547	-1 547c			
17	485	-1	485c	80.45	84.04	7.17	0.4686	0.4895	0.0417	51.7	33 566	11 457	max		
17	490	-1	489c	80.45	84.04	7.17	0.4686	0.4895	0.0417	51.7	33 566	11 457			
19	495	-1	495c	80.4	81.41	5.12	0.4816	0.4876	0.0307	48.2	33 567	12 461			
19	500	-1	499c	80.4	81.41	5.12	0.4816	0.4876	0.0307	48.2	33 567	12 461			
22	510	-1	510c	80.09	75.61	3.7	0.5024	0.4743	0.0232	40.6	34 570	13 467			
23	520	-1	519c	79.77	73.11	3.45	0.5102	0.4676	0.0221	37.6	34 572	13 469	Ym		
26	530	-1	530c	77.58	64.15	3.05	0.5357	0.443	0.0211	27.3	35 577	14 473			
28	540	-1	540c	74.85	57.25	2.95	0.5542	0.4238	0.0219	20.2	36 580	15 475			
28	545	-1	544c	74.85	57.25	2.95	0.5542	0.4238	0.0219	20.2	36 580	15 475			
29	550	-1	549c	73.06	53.65	2.93	0.5635	0.4137	0.0226	16.8	36 583	15 476			
31	555	-1	555c	68.49	46.26	2.92	0.582	0.3931	0.0248	10.3	37 587	15 478			
32	560	-1	560c	65.67	42.54	2.92	0.5908	0.3827	0.0263	7.4	38 590	15 479			
32	562	0	405	72.36	48.96	8.74	0.5563	0.3764	0.0672	6.9	38 591	15 479	Rm		
32	563	7	435	76.09	48.55	30.82	0.4894	0.3123	0.1982	342.6	-1 485c	17 485			
32	564	9	450	77.43	47.85	42.73	0.4608	0.2848	0.2543	325.8	-1 491c	18 491			
33	567	12	460	79.22	47.74	59.27	0.4253	0.2563	0.3182	303.8	-1 505c	21 505			
33	569	13	465	78.28	46.48	63.75	0.4152	0.2465	0.3381	297.1	-1 515c	23 515			
34	572	13	470	75.77	44.02	63.75	0.4128	0.2398	0.3473	294.7	-1 518c	23 518	Mm		
35	579	15	475	71.57	40.93	70.31	0.3914	0.2238	0.3846	283.3	-1 534c	26 534			
38	593	16	480	59.17	32.91	72.47	0.3595	0.2	0.4404	269.5	-1 547c	29 547			
-1	485c	17	485	21.91	15.95	74.08	0.1957	0.1425	0.6617	231.8	11 457	33 566	min		
-1	489c	17	490	21.91	15.95	74.08	0.1957	0.1425	0.6617	231.8	11 457	33 566			
-1	495c	19	495	21.96	18.58	76.12	0.1882	0.1592	0.6524	228.2	12 461	33 567			
-1	499c	19	500	21.96	18.58	76.12	0.1882	0.1592	0.6524	228.2	12 461	33 567			
-1	510c	22	510	22.27	24.38	77.54	0.1793	0.1963	0.6243	220.7	13 467	34 570			
-1	519c	23	520	22.6	26.88	77.79	0.1775	0.2112	0.6111	217.6	13 469	34 572	Bm		
-1	530c	26	530	24.79	35.84	78.19	0.1785	0.2581	0.5632	207.3	14 473	35 577			
-1	540c	28	540	27.51	42.74	78.29	0.1852	0.2877	0.527	200.2	15 475	36 580			
-1	544c	28	545	27.51	42.74	78.29	0.1852	0.2877	0.527	200.2	15 475	36 580			
-1	549c	29	550	29.3	46.34	78.31	0.1903	0.301	0.5086	196.8	15 476	36 583			
-1	555c	31	555	33.88	53.73	78.32	0.2041	0.3238	0.472	190.4	15 478	37 587			
-1	560c	32	560	36.69	57.45	78.32	0.2127	0.333	0.4541	187.4	15 479	38 590			
W0	380	770	102.37	99.99	81.25	0.3609	0.3525	0.2864	0.0						
N0	380	770	4.09	3.99	3.25	0.3609	0.3525	0.2864	0.0						

TUB-test chart CEX3; Hue circle of the *Ostwald* optimal colours with Y values, $Y_N,10=0,0$, $Y_W,10=100$
Ostwald optimal colour data: XYZ and eight different colour diagrams, P00-10



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	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d , λ _d	i _c , λ _c	Cod	
1 405	31 556	32.34	52.14	104.12	0.1714	0.2764	0.552	196.1	15 475	37 587	Cm	
7 435	31 558	26.53	52.8	70.4	0.1772	0.3526	0.4701	164.6	16 482	−1 482c		
10 450	32 560	22.4	52.84	44.15	0.1876	0.4425	0.3698	133.8	18 493	−1 493c		
12 460	32 563	21.89	54.31	29.13	0.2078	0.5156	0.2765	116.8	21 506	−1 506c		
13 465	33 566	22.71	55.64	22.99	0.2241	0.549	0.2268	110.0	23 515	−1 515c		
13 470	34 572	26.57	59.63	22.99	0.2434	0.546	0.2105	105.9	24 520	−1 520c	Gm	
15 475	36 583	33.4	64.53	14.21	0.2978	0.5754	0.1267	92.4	27 536	−1 536c		
15 480	45 629	63.45	81.28	14.21	0.3992	0.5113	0.0894	65.1	31 557	2 414		
17 485	−1 485c	70.45	81.83	9.36	0.4358	0.5062	0.0579	56.2	32 561	11 455	max	
17 490	−1 489c	70.45	81.83	9.36	0.4358	0.5062	0.0579	56.2	32 561	11 455		
18 495	−1 494c	70.4	80.32	7.88	0.4438	0.5063	0.0497	54.5	32 562	11 458		
19 500	−1 499c	70.39	78.57	6.82	0.4518	0.5043	0.0438	52.7	32 563	12 460		
21 510	−1 509c	70.24	74.28	5.51	0.4681	0.495	0.0367	48.2	33 566	12 464		
24 520	−1 520c	69.08	65.75	4.64	0.4952	0.4714	0.0332	39.7	34 570	13 468	Ym	
26 530	−1 530c	67.25	58.99	4.4	0.5147	0.4515	0.0337	33.2	34 574	14 471		
27 540	−1 539c	65.95	55.4	4.33	0.5247	0.4407	0.0345	29.9	35 576	14 472		
29 545	−1 545c	62.54	48.02	4.27	0.5446	0.4181	0.0372	23.3	36 581	14 474		
30 550	−1 550c	60.41	44.31	4.26	0.5542	0.4065	0.0391	20.1	36 583	15 475		
30 555	−1 554c	60.41	44.31	4.26	0.5542	0.4065	0.0391	20.1	36 583	15 475		
31 560	9 447	68.87	42.24	58.7	0.4055	0.2487	0.3456	325.0	−1 488c	17 488		
31 556	1 405	65.3	47.85	14.29	0.5123	0.3754	0.1121	16.1	37 587	15 475	Rm	
31 558	7 435	71.11	47.19	48.01	0.4275	0.2837	0.2887	344.6	−1 482c	16 482		
32 560	10 450	75.24	47.15	74.26	0.3826	0.2397	0.3776	313.9	−1 493c	18 493		
32 563	12 460	75.75	45.68	89.29	0.3594	0.2167	0.4237	296.9	−1 506c	21 506		
33 566	13 465	74.93	44.35	95.43	0.3489	0.2065	0.4444	290.0	−1 515c	23 515		
34 572	13 470	71.07	40.36	95.43	0.3435	0.1951	0.4613	285.9	−1 520c	24 520	Mm	
36 583	15 475	64.24	35.46	104.21	0.315	0.1739	0.511	272.4	−1 536c	27 536		
45 629	15 480	34.19	18.71	104.21	0.2176	0.1191	0.6632	245.1	2 414	31 557		
−1 485c	17 485	27.19	18.16	109.05	0.1761	0.1176	0.7062	236.2	11 455	32 561	mir	
−1 489c	17 490	27.19	18.16	109.05	0.1761	0.1176	0.7062	236.2	11 455	32 561		
−1 494c	18 495	27.24	19.67	110.53	0.173	0.1249	0.702	234.6	11 458	32 562		
−1 499c	19 500	27.25	21.42	111.59	0.17	0.1336	0.6962	232.7	12 460	32 563		
−1 509c	21 510	27.4	25.71	112.9	0.165	0.1548	0.68	228.3	12 464	33 566		
−1 520c	24 520	28.56	34.24	113.77	0.1617	0.1939	0.6443	219.7	13 468	34 570	Bm	
−1 530c	26 530	30.39	41.0	114.02	0.1639	0.2211	0.6149	213.3	14 471	34 574		
−1 539c	27 540	31.69	44.59	114.08	0.1664	0.2342	0.5992	209.9	14 472	35 576		
−1 545c	29 545	35.1	51.97	114.14	0.1744	0.2583	0.5672	203.3	14 474	36 581		
−1 550c	30 550	37.23	55.68	114.15	0.1798	0.2688	0.5513	200.2	15 475	36 583		
−1 554c	30 555	37.23	55.68	114.15	0.1798	0.2688	0.5513	200.2	15 475	36 583		
9 447	31 560	28.77	57.75	59.71	0.1967	0.3949	0.4083	144.9	17 488	−1 488c		
W0 380	770	97.65	100.0	118.42	0.3089	0.3163	0.3746	0.0				
N0 380	770	3.9	4.0	4.73	0.3089	0.3163	0.3746	0.0				

TUB-test chart CEX3; Hue circle of the *Ostwald* optimal colours with Y values, $Y_N,10=0,0$, $Y_W,10=100$
Ostwald optimal colour data: XYZ and eight different colour diagrams, Q00-10

