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Ostwald optimal colours (o), maximum (m) C _{AB} for P60, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
0 405	32 563	31.65	53.56	93.3	0.1773	0.3	0.5226	192.2	16 483	38 590	Cm		
6 435	32 563	28.3	54.12	74.65	0.1801	0.3445	0.4752	174.7	17 487	44 621			
10 450	33 565	22.96	54.2	45.12	0.1877	0.4432	0.3689	140.1	19 497	-1 497c			
11 460	33 566	22.85	55.45	37.84	0.1967	0.4774	0.3258	130.5	20 502	-1 502c			
13 465	33 568	21.78	56.12	24.97	0.2117	0.5455	0.2427	117.2	22 513	-1 513c			
14 470	34 570	22.2	57.09	19.98	0.2236	0.575	0.2012	111.9	24 521	-1 521c	Gm		
15 475	34 574	24.59	59.7	16.0	0.2451	0.5952	0.1595	106.1	25 529	-1 529c			
15 480	36 580	28.98	63.87	16.01	0.2662	0.5866	0.147	102.2	27 535	-1 535c			
17 485	39 595	39.81	70.8	10.63	0.3283	0.5839	0.0877	88.4	29 549	-1 549c			
18 490	-1 490c	72.35	85.0	8.89	0.4352	0.5113	0.0534	57.7	33 566	11 459	max		
19 495	-1 495c	72.31	83.76	7.55	0.4419	0.5119	0.0461	56.3	33 567	12 461			
20 500	-1 500c	72.29	82.2	6.51	0.449	0.5105	0.0404	54.5	33 568	12 464			
22 510	-1 510c	72.19	77.89	5.14	0.465	0.5017	0.0331	49.9	34 570	13 469			
24 520	-1 520c	71.62	71.91	4.45	0.4839	0.4859	0.0301	43.5	34 572	14 473	Ym		
25 530	-1 529c	71.04	68.43	4.25	0.4943	0.4761	0.0295	39.9	34 574	15 475			
27 540	-1 539c	69.15	60.8	3.99	0.5162	0.4539	0.0298	32.1	35 578	15 478			
29 545	-1 545c	66.16	52.69	3.87	0.539	0.4293	0.0315	24.2	36 582	16 480			
29 550	-1 549c	66.16	52.69	3.87	0.539	0.4293	0.0315	24.2	36 582	16 480			
30 555	-1 554c	64.21	48.59	3.84	0.5504	0.4165	0.0329	20.3	36 584	16 481			
32 560	-1 560c	59.36	40.5	3.81	0.5725	0.3906	0.0367	13.2	37 589	16 483			
32 563	0 405	65.41	46.43	11.27	0.5312	0.3771	0.0915	12.2	38 590	16 483	Rm		
32 563	6 435	68.76	45.87	29.92	0.4756	0.3173	0.2069	354.7	44 621	17 487			
33 565	10 450	74.1	45.79	59.44	0.4131	0.2553	0.3314	320.2	-1 497c	19 497			
33 566	11 460	74.21	44.54	66.72	0.4001	0.2401	0.3597	310.6	-1 502c	20 502			
33 568	13 465	75.28	43.87	79.59	0.3787	0.2207	0.4004	297.2	-1 513c	22 513			
34 570	14 470	74.86	42.9	84.59	0.3699	0.212	0.418	291.9	-1 521c	24 521	Mm		
34 574	15 475	72.47	40.29	88.56	0.3599	0.2001	0.4398	286.2	-1 529c	25 529			
36 580	15 480	68.08	36.12	88.55	0.3531	0.1874	0.4594	282.3	-1 535c	27 535			
39 595	17 485	57.25	29.19	93.93	0.3173	0.1618	0.5207	268.5	-1 549c	29 549			
-1 490c	18 490	24.71	14.99	95.68	0.1825	0.1107	0.7067	237.7	11 459	33 566	min		
-1 495c	19 495	24.75	16.23	97.02	0.1793	0.1176	0.7029	236.3	12 461	33 567			
-1 500c	20 500	24.77	17.79	98.05	0.1761	0.1265	0.6972	234.6	12 464	33 568			
-1 510c	22 510	24.87	22.1	99.42	0.1699	0.1509	0.679	229.9	13 469	34 570			
-1 520c	24 520	25.44	28.08	100.11	0.1655	0.1827	0.6516	223.6	14 473	34 572	Bm		
-1 529c	25 530	26.02	31.56	100.32	0.1647	0.1999	0.6353	219.9	15 475	34 574			
-1 539c	27 540	27.91	39.19	100.57	0.1664	0.2337	0.5997	212.2	15 478	35 578			
-1 545c	29 545	30.9	47.3	100.69	0.1727	0.2644	0.5628	204.2	16 480	36 582			
-1 549c	29 550	30.9	47.3	100.69	0.1727	0.2644	0.5628	204.2	16 480	36 582			
-1 554c	30 555	32.85	51.4	100.72	0.1776	0.2778	0.5445	200.4	16 481	36 584			
-1 560c	32 560	37.7	59.49	100.75	0.1904	0.3005	0.5089	193.2	16 483	37 589			
W0 380	770	97.06	99.99	104.57	0.3218	0.3315	0.3466	0.0					
N0 380	770	3.88	3.99	4.18	0.3218	0.3315	0.3466	0.0					

CEX70-7N

TUB-test chart CEX7; Hue circle of the *Ostwald* optimal colours with Y values, Y_N=0,0, Y_W=100
Data: XYZ and YABC_{AB}h_{AB} as table with different wavelength, P60-02

Ostwald optimal colours (o), maximum (m) C _{AB} for P60, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	Y	A	B	C _{AB}	a	b	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
0 405	32 563	53.56	-50.83	-37.27	63.03	0.5907	-0.6965	216.2	16 483	38 590	Cm		
6 435	32 563	54.12	-60.57	-18.04	63.2	0.5227	-0.5515	196.5	17 487	44 621			
10 450	33 565	54.2	-74.1	11.55	74.99	0.4236	-0.3329	171.1	19 497	-1 497c			
11 460	33 566	55.45	-77.42	20.13	79.99	0.4119	-0.2729	165.4	20 502	-1 502c			
13 465	33 568	56.12	-81.71	33.7	88.38	0.388	-0.1779	157.5	22 513	-1 513c			
14 470	34 570	57.09	-83.01	39.7	92.02	0.3888	-0.1399	154.4	24 521	-1 521c	Gm		
15 475	34 574	59.7	-83.37	46.41	95.41	0.4118	-0.1072	150.8	25 529	-1 529c			
15 480	36 580	63.87	-82.5	50.76	96.86	0.4537	-0.1002	148.3	27 535	-1 535c			
17 485	39 595	70.8	-72.25	63.39	96.12	0.5622	-0.06	138.7	29 549	-1 549c			
18 490	-1 490c	85.0	-25.38	79.98	83.91	0.8509	-0.0418	107.6	33 566	11 459	max		
19 495	-1 495c	83.76	-22.46	80.01	83.11	0.8631	-0.036	105.6	33 567	12 461			
20 500	-1 500c	82.2	-18.71	79.42	81.59	0.8793	-0.0316	103.2	33 568	12 464			
22 510	-1 510c	77.89	-8.53	76.28	76.76	0.9265	-0.0264	96.3	34 570	13 469			
24 520	-1 520c	71.91	4.55	70.72	70.87	0.9957	-0.0247	86.3	34 572	14 473	Ym		
25 530	-1 529c	68.43	11.56	67.29	68.27	1.038	-0.0248	80.2	34 574	15 475			
27 540	-1 539c	60.8	25.33	59.57	64.73	1.137	-0.0262	66.9	35 578	15 478			
29 545	-1 545c	52.69	37.52	51.21	63.48	1.2552	-0.0294	53.7	36 582	16 480			
29 550	-1 549c	52.69	37.52	51.21	63.48	1.2552	-0.0294	53.7	36 582	16 480			
30 555	-1 554c	48.59	42.61	46.95	63.4	1.3211	-0.0316	47.7	36 584	16 481			
32 560	-1 560c	40.5	50.12	38.52	63.21	1.4654	-0.0376	37.5	37 589	16 483			
32 563	0 405	46.43	50.84	37.27	63.04	1.4083	-0.097	36.2	38 590	16 483	Rm		
32 563	6 435	45.87	60.57	18.04	63.2	1.4985	-0.2608	16.5	44 621	17 487			
33 565	10 450	45.79	74.08	-11.55	74.98	1.6175	-0.519	351.1	-1 497c	19 497			
33 566	11 460	44.54	77.4	-20.13	79.98	1.6655	-0.5989	345.4	-1 502c	20 502			
33 568	13 465	43.87	81.68	-33.69	88.36	1.7151	-0.7253	337.5	-1 513c	22 513			
34 570	14 470	42.9	82.98	-39.69	91.99	1.7441	-0.7882	334.4	-1 521c	24 521	Mm		
34 574	15 475	40.29	83.34	-46.39	95.38	1.7977	-0.8786	330.8	-1 529c	25 529			
36 580	15 480	36.12	82.47	-50.74	96.83	1.8835	-0.9799	328.3	-1 535c	27 535			
39 595	17 485	29.19	72.22	-63.36	96.08	1.9601	-1.2864	318.7	-1 549c	29 549			
-1 490c	18 490	14.99	25.36	-79.92	83.85	1.6471	-2.5507	287.6	11 459	33 566	min		
-1 495c	19 495	16.23	22.44	-79.96	83.05	1.5234	-2.3881	285.6	12 461	33 567			
-1 500c	20 500	17.79	18.7	-79.37	81.54	1.3907	-2.2019	283.2	12 464	33 568			
-1 510c	22 510	22.1	8.53	-76.24	76.72	1.1247	-1.7979	276.3	13 469	34 570			
-1 520c	24 520	28.08	-4.55	-70.7	70.84	0.9055	-1.4253	266.3	14 473	34 572	Bm		
-1 529c	25 530	31.56	-11.56	-67.27	68.25	0.8238	-1.2706	260.2	15 475	34 574			
-1 539c	27 540	39.19	-25.32	-59.55	64.72	0.7119	-1.0259	246.9	15 478	35 578			
-1 545c	29 545	47.3	-37.51	-51.2	63.47	0.6531	-0.8511	233.7	16 480	36 582			
-1 549c	29 550	47.3	-37.51	-51.2	63.47	0.6531	-0.8511	233.7	16 480	36 582			
-1 554c	30 555	51.4	-42.6	-46.94	63.4	0.6388	-0.7834	227.7	16 481	36 584			
-1 560c	32 560	59.49	-50.11	-38.52	63.21	0.6334	-0.6771	217.5	16 483	37 589			
W0 380	770	99.99	0.0	0.0	0.0	0.9704	-0.4181	0.0	B _c =1,000				
N0 380	770	3.99	0.0	0.0	0.0	0.9704	-0.4181	0.0	x _c =0,000				

CEX71-7N

TUB registration: 20201101-CEX7/CEX7LONP.PDF /.PS
application for evaluation and measurement of display or print output

TUB material: code=rha4ta

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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} for P55, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
1 405	32 564	30.81	53.53	85.12	0.1818	0.3158	0.5022	189.4	16 484	38 591	Cm		
6 435	32 564	27.95	54.05	69.07	0.185	0.3577	0.4571	173.4	17 488	44 620			
9 450	33 565	24.4	54.21	49.07	0.1911	0.4246	0.3842	149.2	18 494	-1 494c			
11 460	33 567	23.01	55.19	35.5	0.2023	0.4853	0.3122	131.8	20 502	-1 502c			
13 465	33 568	22.01	55.8	23.55	0.2171	0.5504	0.2323	118.7	22 513	-1 513c			
14 470	34 570	22.36	56.61	18.88	0.2285	0.5785	0.1929	113.5	24 520	-1 520c	Gm		
15 475	34 574	24.54	58.99	15.14	0.2486	0.5978	0.1535	107.9	25 529	-1 529c			
16 480	36 580	28.05	62.08	12.25	0.2739	0.6063	0.1197	102.3	27 536	-1 536c			
17 485	38 592	37.92	68.99	10.07	0.3241	0.5897	0.086	91.8	29 547	-1 547c			
17 490	-1 489c	74.12	86.27	10.08	0.4348	0.506	0.0591	58.1	33 566	11 456	max		
19 495	-1 495c	73.99	84.12	7.12	0.4477	0.5091	0.0431	55.4	33 567	12 462			
19 500	-1 499c	73.99	84.12	7.12	0.4477	0.5091	0.0431	55.4	33 567	12 462			
21 510	-1 509c	73.95	80.75	5.37	0.4619	0.5044	0.0335	51.5	33 569	13 467			
24 520	-1 520c	73.32	72.63	4.14	0.4884	0.4839	0.0275	42.4	34 573	14 474	Ym		
26 530	-1 530c	71.94	65.55	3.78	0.5092	0.4639	0.0268	34.8	35 576	15 477			
27 540	-1 539c	70.88	61.69	3.68	0.5201	0.4527	0.027	30.7	35 578	15 479			
28 545	-1 544c	69.54	57.71	3.61	0.5313	0.4409	0.0276	26.6	36 580	16 480			
30 550	-1 550c	65.97	49.55	3.54	0.554	0.4161	0.0297	18.7	37 585	16 482			
30 555	-1 554c	65.97	49.55	3.54	0.554	0.4161	0.0297	18.7	37 585	16 482			
32 560	-1 560c	61.1	41.43	3.5	0.5761	0.3907	0.033	11.5	38 590	16 484			
32 564	1 405	66.64	46.46	10.85	0.5375	0.3748	0.0875	9.3	38 591	16 484	Rm		
32 564	6 435	69.49	45.94	26.9	0.4882	0.3227	0.189	353.4	44 620	17 488			
33 565	9 450	73.05	45.78	46.91	0.4407	0.2762	0.283	329.2	-1 494c	18 494			
33 567	11 460	74.44	44.8	60.48	0.4142	0.2492	0.3365	311.9	-1 502c	20 502			
33 568	13 465	75.44	44.19	72.42	0.3928	0.2301	0.377	298.7	-1 513c	22 513			
34 570	14 470	75.09	43.38	77.09	0.3839	0.2218	0.3942	293.5	-1 520c	24 520	Mm		
34 574	15 475	72.91	41.0	80.83	0.3743	0.2105	0.415	288.0	-1 529c	25 529			
36 580	16 480	69.4	37.91	83.72	0.3632	0.1984	0.4382	282.3	-1 536c	27 536			
38 592	17 485	59.53	31.0	85.91	0.3373	0.1757	0.4869	271.8	-1 547c	29 547			
-1 489c	17 490	23.33	13.72	85.9	0.1897	0.1116	0.6986	238.1	11 456	33 566	min		
-1 495c	19 495	23.46	15.87	88.85	0.183	0.1238	0.6931	235.5	12 462	33 567			
-1 499c	19 500	23.46	15.87	88.85	0.183	0.1238	0.6931	235.5	12 462	33 567			
-1 509c	21 510	23.5	19.24	90.61	0.1762	0.1443	0.6794	231.5	13 467	33 569			
-1 520c	24 520	24.13	27.36	91.84	0.1683	0.1908	0.6407	222.4	14 474	34 573	Bm		
-1 530c	26 530	25.5	34.44	92.19	0.1676	0.2264	0.6059	214.8	15 477	35 576			
-1 539c	27 540	26.57	38.3	92.29	0.169	0.2436	0.5872	210.7	15 479	35 578			
-1 544c	28 545	27.91	42.28	92.36	0.1716	0.2601	0.5681	206.7	16 480	36 580			
-1 550c	30 550	31.48	50.44	92.44	0.1805	0.2892	0.5301	198.7	16 482	37 585			
-1 554c	30 555	31.48	50.44	92.44	0.1805	0.2892	0.5301	198.7	16 482	37 585			
-1 560c	32 560	36.34	58.56	92.47	0.1939	0.3125	0.4935	191.5	16 484	38 590			
W0	380 770	97.45	100.0	95.98	0.3321	0.3407	0.327	0.0					
N0	380 770	3.89	4.0	3.83	0.3321	0.3407	0.327	0.0					

CEX70-7N

TUB-test chart CEX7; Hue circle of the *Ostwald* optimal colours with Y values, Y_N=0,0, Y_W=100
Data: XYZ and YABC_{AB}h_{AB} as table with different wavelength, P55-02

1-000100-F0

Ostwald optimal colours (o), maximum (m) C _{AB} for P55, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	Y	A	B	C _{AB}	a	b	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
1 405	32 564	53.53	-53.38	-33.72	63.14	0.5754	-0.6358	212.2	16 484	38 591	Cm		
6 435	32 564	54.05	-61.78	-17.18	64.13	0.517	-0.511	195.5	17 488	44 620			
9 450	33 565	54.21	-71.06	2.96	71.13	0.4499	-0.3619	177.6	18 494	-1 494c			
11 460	33 567	55.19	-76.92	17.46	78.87	0.4168	-0.2572	167.2	20 502	-1 502c			
13 465	33 568	55.8	-80.9	29.99	86.28	0.3943	-0.1688	159.6	22 513	-1 513c			
14 470	34 570	56.61	-82.0	35.44	89.33	0.3949	-0.1334	156.6	24 520	-1 520c	Gm		
15 475	34 574	58.99	-82.35	41.46	92.2	0.4159	-0.1026	153.2	25 529	-1 529c			
16 480	36 580	62.08	-81.09	47.31	93.88	0.4517	-0.0789	149.7	27 536	-1 536c			
17 485	38 592	68.99	-73.25	56.13	92.28	0.5496	-0.0583	142.5	29 547	-1 547c			
17 490	-1 489c	86.27	-24.86	72.7	76.83	0.859	-0.0467	108.8	33 566	11 456	max		
19 495	-1 495c	84.12	-19.97	73.59	76.26	0.8793	-0.0338	105.1	33 567	12 462			
19 500	-1 499c	84.12	-19.97	73.59	76.26	0.8793	-0.0338	105.1	33 567	12 462			
21 510	-1 509c	80.75	-11.84	72.11	73.08	0.9155	-0.0265	99.3	33 569	13 467			
24 520	-1 520c	72.63	6.34	65.55	65.86	1.0092	-0.0228	84.4	34 573	14 474	Ym		
26 530	-1 530c	65.55	20.16	59.11	62.45	1.0973	-0.0231	71.1	35 576	15 477			
27 540	-1 539c	61.69	26.89	55.51	61.69	1.1486	-0.0238	64.1	35 578	15 479			
28 545	-1 544c	57.71	33.25	51.76	61.52	1.2047	-0.025	57.2	36 580	16 480			
30 550	-1 550c	49.55	44.19	44.01	62.37	1.3309	-0.0285	44.8	37 585	16 482			
30 555	-1 554c	49.55	44.19	44.01	62.37	1.3309	-0.0285	44.8	37 585	16 482			
32 560	-1 560c	41.43	51.79	36.25	63.22	1.4742	-0.0338	34.9	38 590	16 484			
32 564	1 405	46.46	53.39	33.72	63.15	1.4339	-0.0934	32.2	38 591	16 484	Rm		
32 564	6 435	45.94	61.78	17.18	64.13	1.5122	-0.2341	15.5	44 620	17 488			
33 565	9 450	45.78	71.06	-2.96	71.12	1.5951	-0.4097	357.6	-1 494c	18 494			
33 567	11 460	44.8	76.9	-17.46	78.86	1.6609	-0.5397	347.2	-1 502c	20 502			
33 568	13 465	44.19	80.88	-29.98	86.26	1.7063	-0.6552	339.6	-1 513c	22 513			
34 570	14 470	43.38	81.98	-35.43	89.31	1.7302	-0.7105	336.6	-1 520c	24 520	Mm		
34 574	15 475	41.0	82.33	-41.45	92.17	1.7775	-0.7882	333.2	-1 529c	25 529			
36 580	16 480	37.91	81.06	-47.29	93.85	1.8294	-0.8827	329.7	-1 536c	27 536			
38 592	17 485	31.0	73.22	-56.11	92.25	1.9189	-1.1077	322.5	-1 547c	29 547			
-1 489c	17 490	13.72	24.84	-72.65	76.78	1.6982	-2.5011	288.8	11 456	33 566	min		
-1 495c	19 495	15.87	19.95	-73.55	76.21	1.4773	-2.2375	285.1	12 462	33 567			
-1 499c	19 500	15.87	19.95	-73.55	76.21	1.4773	-2.2375	285.1	12 462	33 567			
-1 509c	21 510	19.24	11.84	-72.08	73.04	1.2204	-1.8818	279.3	13 467	33 569			
-1 520c	24 520	27.36	-6.34	-65.53	65.84	0.8815	-1.3419	264.4	14 474	34 573	Bm		
-1 530c	26 530	34.44	-20.16	-59.1	62.44	0.7401	-1.0701	251.1	15 477	35 576			
-1 539c	27 540	38.3	-26.88	-55.5	61.67	0.6934	-0.9635	244.1	15 479	35 578			
-1 544c	28 545	42.28	-33.24	-51.75	61.51	0.6598	-0.8734	237.2	16 480	36 580			
-1 550c	30 550	50.44	-44.18	-44.0	62.36	0.6239	-0.7327	224.8	16 482	37 585			
-1 554c	30 555	50.44	-44.18	-44.0	62.36	0.6239	-0.7327	224.8	16 482	37 585			
-1 560c	32 560	58.56	-51.79	-36.25	63.22	0.6205	-0.6314	214.9	16 484	38 590			
W0	380 770	100.0	0.0	0.0	0.0	0.9742	-0.3838	0.0	B _c =1,000				
N0	380 770	4.0	0.0	0.0	0.0	0.9742	-0.3838	0.0	x _c =0,000				

CEX71-7N

TUB registration: 20201101-CEX7/CEX7LONP.PDF /.PS
application for evaluation and measurement of display or print output

TUB material: code=rha4ta

see similar files: <http://farbe.li-tu-berlin.de/CEX7/CEX7.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) C _{AB} for P50, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
0	405	33	565	29.73	52.86	77.25	0.186	0.3307	0.4832	187.4	17 485	38 592	Cm
7	435	33	565	26.08	53.24	57.21	0.191	0.3899	0.419	165.8	18 490	-1 490c	
9	450	33	566	24.49	54.01	45.07	0.1982	0.437	0.3647	149.6	19 495	-1 495c	
11	460	33	568	23.24	54.89	32.83	0.2094	0.4946	0.2958	133.3	20 502	-1 502c	
12	465	33	569	23.13	55.73	27.07	0.2183	0.526	0.2555	125.8	21 507	-1 507c	
14	470	34	571	22.6	56.07	17.62	0.2347	0.5822	0.183	115.4	24 520	-1 520c	Gm
15	475	34	574	24.55	58.2	14.16	0.2533	0.6004	0.1461	110.1	25 528	-1 528c	
16	480	35	579	28.13	61.34	11.47	0.2786	0.6076	0.1136	104.4	27 536	-1 536c	
16	485	37	589	36.4	67.88	11.48	0.3144	0.5863	0.0992	97.3	28 544	-1 544c	
17	490	47	636	69.12	83.91	9.43	0.4254	0.5164	0.058	63.9	33 565	-1 565c	
19	495	-1 495c	76.04	84.54	6.65	0.4547	0.5055	0.0397	54.4	33 568	12 462	max	
20	500	-1 500c	76.03	83.11	5.7	0.4612	0.5041	0.0346	52.6	33 569	13 465		
21	510	-1 509c	76.01	81.32	4.97	0.4683	0.501	0.0306	50.4	34 570	13 468		
24	520	-1 520c	75.4	73.48	3.79	0.4938	0.4812	0.0248	41.0	34 574	14 474	Ym	
26	530	-1 530c	74.05	66.55	3.44	0.514	0.462	0.0239	33.1	35 577	15 478		
28	540	-1 540c	71.68	58.82	3.27	0.5358	0.4396	0.0244	24.8	36 581	16 481		
28	545	-1 544c	71.68	58.82	3.27	0.5358	0.4396	0.0244	24.8	36 581	16 481		
30	550	-1 550c	68.13	50.71	3.2	0.5582	0.4155	0.0262	16.7	37 585	16 483		
30	555	-1 554c	68.13	50.71	3.2	0.5582	0.4155	0.0262	16.7	37 585	16 483		
32	560	-1 560c	63.25	42.57	3.16	0.5803	0.3906	0.029	9.4	38 590	17 485		
33	565	0	405	68.38	47.13	9.24	0.5481	0.3777	0.0741	7.4	38 592	17 485	Rm
33	565	7	435	72.03	46.75	29.28	0.4864	0.3157	0.1977	345.9	-1 490c	18 490	
33	566	9	450	73.62	45.98	41.42	0.4571	0.2855	0.2572	329.6	-1 495c	19 495	
33	568	11	460	74.87	45.1	53.66	0.4312	0.2597	0.309	313.3	-1 502c	20 502	
33	569	12	465	74.98	44.26	59.42	0.4196	0.2477	0.3325	305.9	-1 507c	21 507	
34	571	14	470	75.51	43.92	68.87	0.401	0.2332	0.3657	295.5	-1 520c	24 520	Mm
34	574	15	475	73.56	41.79	72.33	0.3919	0.2226	0.3853	290.1	-1 528c	25 528	
35	579	16	480	69.99	38.65	75.02	0.381	0.2104	0.4084	284.4	-1 536c	27 536	
37	589	16	485	61.72	32.11	75.01	0.3655	0.1902	0.4442	277.3	-1 544c	28 544	
47	636	17	490	29.0	16.08	77.06	0.2374	0.1316	0.6308	243.9	-1 565c	33 565	
-1 495c	19 495	22.07	15.45	79.85	0.188	0.1316	0.6802	234.5	12 462	33 568	min		
-1 500c	20 500	22.08	16.88	80.79	0.1844	0.1409	0.6746	232.7	13 465	33 569			
-1 509c	21 510	22.11	18.67	81.52	0.1807	0.1526	0.6665	230.4	13 468	34 570			
-1 520c	24 520	22.71	26.51	82.71	0.1721	0.2009	0.6268	221.0	14 474	34 574	Bm		
-1 530c	26 530	24.06	33.44	83.05	0.1711	0.2379	0.5908	213.1	15 478	35 577			
-1 540c	28 540	26.43	41.17	83.22	0.1752	0.2729	0.5517	204.8	16 481	36 581			
-1 544c	28 545	26.43	41.17	83.22	0.1752	0.2729	0.5517	204.8	16 481	36 581			
-1 550c	30 550	29.98	49.28	83.3	0.1844	0.3031	0.5124	196.7	16 483	37 585			
-1 554c	30 555	29.98	49.28	83.3	0.1844	0.3031	0.5124	196.7	16 483	37 585			
-1 560c	32 560	34.86	57.42	83.33	0.1985	0.3269	0.4745	189.4	17 485	38 590			
W0	380	770	98.12	100.0	86.5	0.3447	0.3513	0.3039	0.0				
N0	380	770	3.92	4.0	3.46	0.3447	0.3513	0.3039	0.0				

CEX70-7N

TUB-test chart CEX7; Hue circle of the *Ostwald* optimal colours with Y values, Y_N=0,0, Y_W=100
Data: XYZ and YABC_{AB}h_{AB} as table with different wavelength, P50-02

1-000200-F0

Ostwald optimal colours (o), maximum (m) C _{AB} for P50, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	Y	A	B	C _{AB}	a	b	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
0	405	33	565	52.86	-55.33	-31.51	63.67	0.5622	-0.5843	209.6	17 485	38 592	Cm
7	435	33	565	53.24	-65.38	-11.15	66.33	0.4897	-0.4296	189.6	18 490	-1 490c	
9	450	33	566	54.01	-71.22	1.64	71.24	0.4534	-0.3337	178.6	19 495	-1 495c	
11	460	33	568	54.89	-76.51	14.64	77.9	0.4233	-0.2392	169.1	20 502	-1 502c	
12	465	33	569	55.73	-78.85	21.13	81.63	0.415	-0.1942	164.9	21 507	-1 507c	
14	470	34	571	56.07	-81.01	30.87	86.69	0.4031	-0.1257	159.1	24 520	-1 520c	Gm
15	475	34	574	58.2	-81.36	36.17	89.04	0.4218	-0.0973	156.0	25 528	-1 528c	
16	480	35	579	61.34	-80.11	41.57	90.25	0.4585	-0.0748	152.5	27 536	-1 536c	
16	485	37	589	67.88	-75.48	47.21	89.03	0.5361	-0.0676	147.9	28 544	-1 544c	
17	490	47	636	83.91	-33.01	63.13	71.24	0.8235	-0.0449	117.6	33 565	-1 565c	
19	495	-1 495c	84.54	-17.25	66.46	68.66	0.8993	-0.0314	104.5	33 568	12 462	max	
20	500	-1 500c	83.11	-13.78	66.17	67.59	0.9146	-0.0274	101.7	33 569	13 465		
21	510	-1 509c	81.32	-9.44	65.35	66.03	0.9344	-0.0244	98.2	34 570	13 468		
24	520	-1 520c	73.48	8.26	59.75	60.32	1.0259	-0.0206	82.1	34 574	14 474	Ym	
26	530	-1 530c	66.55	21.88	54.11	58.37	1.1124	-0.0207	67.9	35 577	15 478		
28	540	-1 540c	58.82	34.91	47.59	59.03	1.2183	-0.0222	53.7	36 581	16 481		
28	545	-1 544c	58.82	34.91	47.59	59.03	1.2183	-0.0222	53.7	36 581	16 481		
30	550	-1 550c	50.71	45.92	40.65	61.33	1.3431	-0.0252	41.5	37 585	16 483		
30	555	-1 554c	50.71	45.92	40.65	61.33	1.3431	-0.0252	41.5	37 585	16 483		
32	560	-1 560c	42.57	53.68	33.65	63.35	1.4852	-0.0297	32.0	38 590	17 485		
33	565	0	405	47.13	55.33	31.51	63.68	1.4505	-0.0784	29.6	38 592	17 485	Rm
33	565	7	435	46.75	65.38	11.15	66.32	1.5403	-0.2504	9.6	-1 490c	18 490	
33	566	9	450	45.98	71.21	-1.64	71.23	1.6004	-0.3601	358.6	-1 495c	19 495	
33	568	11	460	45.1	76.5	-14.63	77.89	1.6594	-0.4757	349.1	-1 502c	20 502	
33	569	12	465	44.26	78.83	-21.12	81.62	1.6934	-0.5368	344.9	-1 507c	21 507	
34	571	14	470	43.92	80.99	-30.86	86.67	1.7185	-0.6269	339.1	-1 520c	24 520	Mm
34	574	15	475	41.79	81.33	-36.16	89.01	1.7594	-0.692	336.0	-1 528c	25 528	
35	579	16	480	38.65	80.08	-41.55	90.22	1.8096	-0.7759	332.5	-1 536c	27 536	
37	589	16	485	32.11	75.45	-47.2	89.0	1.9206	-0.9337	327.9	-1 544c	28 544	
47	636	17	490	16.08	32.99	-63.09	71.2	1.8015	-1.9149	297.6	-1 565c	33 565	
-1 495c	19 495	15.45	17.24	-66.42	68.62	1.4272	-2.0652	284.5	12 462	33 568	min		
-1 500c	20 500	16.88	13.77	-66.14	67.55	1.3073	-1.9129	281.7	13 465	33 569			
-1 509c	21 510	18.67	9.44	-65.32	66.0	1.1831	-1.7449	278.2	13 468	34 570			
-1 520c	24 520	26.51	-8.26	-59.73	60.3	0.8562	-1.2469	262.1	14 474	34 574	Bm		
-1 530c	26 530	33.44	-21.88	-54.1	58.35	0.7192	-0.9929	247.9	15 478	35 577			
-1 540c	28 540	41.17	-34.9	-47.59	59.02	0.6418	-0.8082	233.7	16 481	36 581			
-1 544c	28 545	41.17	-34.9	-47.59	59.02	0.6418	-0.8082	233.7	16 481	36 581			
-1 550c	30 550	49.28	-45.91	-40.65	61.33	0.6082	-0.6758	221.5	16 483	37 585			
-1 554c	30 555	49.28	-45.91	-40.65	61.33	0.6082	-0.6758	221.5	16 483	37 585			
-1 560c	32 560	57.42	-53.67	-33.65	63.35	0.607	-0.5803	212.0	17 485	38 590			
W0	380	770	100.0	0.0	0.0	0.0	0.9809	-0.3459	0.0	B _c =1,000			
N0	380	770	4.0	0.0	0.0	0.0	0.9809	-0.3459	0.0	x _c =0,000			

CEX71-7N

TUB registration: 20201101-CEX7/CEX7LONP.PDF /.PS
application for evaluation and measurement of display or print output

TUB material: code=rha4ta

see similar files: <http://farbe.li-tu-berlin.de/CEX7/CEX7.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) C _{AB} for P45, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
1 405	33 566	29.02	52.74	67.6	0.1943	0.3531	0.4525	183.4	17 487	38 593	Cm		
7 435	33 567	26.04	53.09	51.07	0.2	0.4077	0.3922	164.4	18 491	-1 491c			
10 450	33 568	23.67	53.63	35.16	0.2104	0.4768	0.3126	142.8	19 499	-1 499c			
12 460	33 569	22.7	54.32	24.66	0.2232	0.5341	0.2425	128.7	21 507	-1 507c			
13 465	34 570	22.23	54.38	20.06	0.2299	0.5625	0.2075	123.1	22 512	-1 512c			
13 470	34 571	23.53	55.8	20.06	0.2367	0.5613	0.2018	121.9	22 514	-1 514c	Gm		
15 475	34 574	24.67	57.32	13.03	0.2596	0.6031	0.1371	112.7	25 528	-1 528c			
15 480	35 578	27.96	60.46	13.04	0.2755	0.5958	0.1285	110.0	26 532	-1 532c			
17 485	37 587	34.14	64.69	8.68	0.3175	0.6016	0.0807	100.1	28 544	-1 544c			
17 490	42 611	55.7	77.39	8.69	0.3928	0.5457	0.0613	79.8	31 559	-1 559c			
19 495	-1 495c	78.61	85.02	6.11	0.4631	0.5008	0.0359	53.2	33 569	12 463	max		
20 500	-1 500c	78.6	83.68	5.22	0.4692	0.4995	0.0311	51.3	34 570	13 466			
22 510	-1 510c	78.5	79.89	4.02	0.4833	0.4918	0.0247	46.2	34 572	14 471			
24 520	-1 520c	77.99	74.47	3.4	0.5003	0.4777	0.0218	39.2	34 574	15 475	Ym		
26 530	-1 530c	76.69	67.75	3.06	0.5198	0.4593	0.0207	31.0	35 578	15 479			
27 540	-1 539c	75.66	64.04	2.96	0.5303	0.4488	0.0207	26.7	35 579	16 480			
29 545	-1 545c	72.76	56.19	2.85	0.552	0.4262	0.0216	18.1	36 583	16 483			
29 550	-1 549c	72.76	56.19	2.85	0.552	0.4262	0.0216	18.1	36 583	16 483			
30 555	-1 554c	70.84	52.13	2.82	0.5631	0.4144	0.0224	14.1	37 585	16 484			
31 560	-1 559c	68.57	48.05	2.8	0.5741	0.4023	0.0234	10.3	37 588	17 485			
33 566	1 405	70.17	47.25	8.46	0.5574	0.3753	0.0672	3.4	38 593	17 487	Rm		
33 567	7 435	73.16	46.9	24.99	0.5043	0.3233	0.1723	344.5	-1 491c	18 491			
33 568	10 450	75.53	46.36	40.91	0.4639	0.2847	0.2512	322.8	-1 499c	19 499			
33 569	12 460	76.5	45.67	51.4	0.4407	0.2631	0.2961	308.7	-1 507c	21 507			
34 570	13 465	76.97	45.61	56.0	0.4309	0.2553	0.3136	303.2	-1 512c	22 512			
34 571	13 470	75.66	44.19	56.0	0.4302	0.2512	0.3184	301.9	-1 514c	22 514	Mm		
34 574	15 475	74.52	42.67	63.03	0.4134	0.2367	0.3497	292.8	-1 528c	25 528			
35 578	15 480	71.24	39.53	63.02	0.4099	0.2274	0.3626	290.0	-1 532c	26 532			
37 587	17 485	65.06	35.3	67.38	0.3878	0.2104	0.4017	280.2	-1 544c	28 544			
42 611	17 490	43.49	22.6	67.37	0.3258	0.1693	0.5047	259.9	-1 559c	31 559			
-1 495c	19 495	20.58	14.97	69.96	0.1951	0.1419	0.6629	233.2	12 463	33 569	min		
-1 500c	20 500	20.6	16.31	70.85	0.1911	0.1514	0.6574	231.4	13 466	34 570			
-1 510c	22 510	20.69	20.1	72.04	0.1833	0.1781	0.6384	226.2	14 471	34 572			
-1 520c	24 520	21.2	25.52	72.67	0.1776	0.2137	0.6086	219.3	15 475	34 574	Bm		
-1 530c	26 530	22.51	32.24	73.0	0.1762	0.2523	0.5714	211.0	15 479	35 578			
-1 539c	27 540	23.53	35.95	73.1	0.1775	0.2711	0.5513	206.7	16 480	35 579			
-1 545c	29 545	26.44	43.8	73.21	0.1842	0.3053	0.5103	198.2	16 483	36 583			
-1 549c	29 550	26.44	43.8	73.21	0.1842	0.3053	0.5103	198.2	16 483	36 583			
-1 554c	30 555	28.36	47.86	73.24	0.1897	0.3202	0.49	194.1	16 484	37 585			
-1 559c	31 560	30.62	51.94	73.26	0.1965	0.3333	0.4701	190.3	17 485	37 588			
W0 380	770	99.2	100.0	76.07	0.3603	0.3632	0.2763	0.0					
N0 380	770	3.96	4.0	3.04	0.3603	0.3632	0.2763	0.0					

CEX70-7N

TUB-test chart CEX7; Hue circle of the *Ostwald* optimal colours with Y values, Y_N=0,0, Y_W=100
Data: XYZ and YABC_{AB}h_{AB} as table with different wavelength, P45-02

1-000300-F0

Ostwald optimal colours (o), maximum (m) C _{AB} for P45, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	Y	A	B	C _{AB}	a	b	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
1 405	33 566	52.74	-58.24	-27.46	64.39	0.5501	-0.5125	205.2	17 487	38 593	Cm		
7 435	33 567	53.09	-66.54	-10.68	67.39	0.4904	-0.3847	189.1	18 491	-1 491c			
10 450	33 568	53.63	-73.81	5.63	74.02	0.4412	-0.2621	175.6	19 499	-1 499c			
12 460	33 569	54.32	-77.93	16.64	79.69	0.4179	-0.1816	167.9	21 507	-1 507c			
13 465	34 570	54.38	-79.27	21.3	82.08	0.4087	-0.1475	164.9	22 512	-1 512c			
13 470	34 571	55.8	-79.52	22.37	82.61	0.4217	-0.1438	164.2	22 514	-1 514c	Gm		
15 475	34 574	57.32	-80.44	30.56	86.05	0.4304	-0.0909	159.1	25 528	-1 528c			
15 480	35 578	60.46	-80.03	32.94	86.54	0.4623	-0.0862	157.6	26 532	-1 532c			
17 485	37 587	64.69	-75.07	40.52	85.3	0.5276	-0.0536	151.6	28 544	-1 544c			
17 490	42 611	77.39	-52.64	50.16	72.71	0.7196	-0.0449	136.3	31 559	-1 559c			
19 495	-1 495c	85.02	-14.31	58.55	60.27	0.9244	-0.0287	103.7	33 569	12 463	max		
20 500	-1 500c	83.68	-11.01	58.42	59.45	0.9391	-0.0249	100.6	34 570	13 466			
22 510	-1 510c	79.89	-1.85	56.73	56.76	0.9824	-0.0201	91.8	34 572	14 471			
24 520	-1 520c	74.47	10.28	53.24	54.22	1.047	-0.0182	79.0	34 574	15 475	Ym		
26 530	-1 530c	67.75	23.68	48.46	53.94	1.1315	-0.0181	63.9	35 578	15 479			
27 540	-1 539c	64.04	30.31	45.74	54.87	1.1811	-0.0185	56.4	35 579	16 480			
29 545	-1 545c	56.19	42.54	39.87	58.31	1.2946	-0.0203	43.1	36 583	16 483			
29 550	-1 549c	56.19	42.54	39.87	58.31	1.2946	-0.0203	43.1	36 583	16 483			
30 555	-1 554c	52.13	47.79	36.82	60.33	1.3584	-0.0216	37.6	37 585	16 484			
31 560	-1 559c	48.05	52.25	33.73	62.2	1.4267	-0.0233	32.8	37 588	17 485			
33 566	1 405	47.25	58.24	27.46	64.39	1.4848	-0.0716	25.2	38 593	17 487	Rm		
33 567	7 435	46.9	66.53	10.68	67.39	1.5591	-0.213	9.1	-1 491c	18 491			
33 568	10 450	46.36	73.8	-5.63	74.01	1.6284	-0.3528	355.6	-1 499c	19 499			
33 569	12 460	45.67	77.91	-16.64	79.67	1.6741	-0.4499	347.9	-1 507c	21 507			
34 570	13 465	45.61	79.25	-21.29	82.07	1.6868	-0.4909	344.9	-1 512c	22 512			
34 571	13 470	44.19	79.51	-22.37	82.59	1.7114	-0.5067	344.2	-1 514c	22 514	Mm		
34 574	15 475	42.67	80.42	-30.55	86.03	1.7456	-0.5905	339.1	-1 528c	25 528			
35 578	15 480	39.53	80.01	-32.93	86.52	1.8013	-0.6374	337.6	-1 532c	26 532			
37 587	17 485	35.3	75.04	-40.5	85.28	1.8421	-0.7632	331.6	-1 544c	28 544			
42 611	17 490	22.6	52.62	-50.14	72.68	1.9229	-1.1914	316.3	-1 559c	31 559			
-1 495c	19 495	14.97	14.3	-58.52	60.24	1.3738	-1.8674	283.7	12 463	33 569	min		
-1 500c	20 500	16.31	11.01	-58.39	59.42	1.2617	-1.7356	280.6	13 466	34 570			
-1 510c	22 510	20.1	1.85	-56.71	56.74	1.0286	-1.4324	271.8	14 471	34 572			
-1 520c	24 520	25.52	-10.28	-53.22	54.21	0.8305	-1.1384	259.0	15 475	34 574	Bm		
-1 530c	26 530	32.24	-23.68	-48.45	53.93	0.6979	-0.9054	243.9	15 479	35 578			
-1 539c	27 540	35.95	-30.31	-45.73	54.87	0.6544	-0.813	236.4	16 480	35 579			
-1 545c	29 545	43.8	-42.54	-39.87	58.3	0.6033	-0.6682	223.1	16 483	36 583			
-1 549c	29 550	43.8	-42.54	-39.87	58.3	0.6033	-0.6682	223.1	16 483	36 583			
-1 554c	30 555	47.86	-47.79	-36.82	60.33	0.5923	-0.6119	217.6	16 484	37 585			
-1 559c	31 560	51.94	-52.25	-33.73	62.19	0.5894	-0.5639	212.8	17 485	37 588			
W0 380	770	100.0	0.0	0.0	0.0	0.9917	-0.3042	0.0	B _c =1,000				
N0 380	770	4.0	0.0	0.0	0.0	0.9917	-0.3042	0.0	x _c =0,000				

CEX71-7N

TUB registration: 20201101-CEX7/CEX7LONP.PDF /.PS
application for evaluation and measurement of display or print output

TUB material: code=rha4ta

see similar files: <http://farbe.li-tu-berlin.de/CEX7/CEX7.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) C _{AB} for P40, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
0 405	33 568	28.56	52.58	57.84	0.2054	0.3783	0.4161	179.3	17 488	38 594	Cm		
7 435	33 568	26.11	52.87	44.22	0.2119	0.4291	0.3589	162.5	18 493	-1 493c			
10 450	33 569	24.13	53.33	30.9	0.2226	0.4921	0.2851	143.6	19 499	-1 499c			
12 460	34 570	22.8	53.28	21.91	0.2326	0.5437	0.2236	131.3	21 507	-1 507c			
13 465	34 571	22.89	53.83	17.91	0.2418	0.5688	0.1892	125.6	22 512	-1 512c			
14 470	34 572	23.51	54.75	14.51	0.2534	0.5901	0.1564	120.6	23 519	-1 519c	Gm		
14 475	34 574	25.3	56.7	14.51	0.2622	0.5874	0.1503	119.1	24 522	-1 522c			
15 480	35 578	27.64	58.85	11.73	0.2814	0.5991	0.1194	113.8	26 531	-1 531c			
17 485	37 585	32.27	62.11	7.83	0.3157	0.6076	0.0766	105.5	28 543	-1 543c			
17 490	40 600	46.83	71.73	7.84	0.3704	0.5674	0.062	92.8	30 554	-1 554c			
19 495	-1 495c	81.89	85.57	5.49	0.4734	0.4947	0.0317	51.6	34 571	12 464	max		
20 500	-1 500c	81.88	84.33	4.67	0.4791	0.4934	0.0273	49.6	34 571	13 467			
21 510	-1 509c	81.86	82.76	4.03	0.4853	0.4906	0.0239	47.2	34 572	13 469			
24 520	-1 520c	81.3	75.67	2.97	0.5083	0.473	0.0185	36.9	35 575	15 476	Ym		
26 530	-1 530c	80.05	69.21	2.65	0.5269	0.4556	0.0174	28.2	35 578	16 480			
27 540	-1 539c	79.05	65.61	2.55	0.5369	0.4456	0.0173	23.7	36 580	16 481			
29 545	-1 545c	76.21	57.91	2.44	0.558	0.424	0.0179	14.9	36 584	16 484			
29 550	-1 549c	76.21	57.91	2.44	0.558	0.424	0.0179	14.9	36 584	16 484			
31 555	-1 555c	72.04	49.83	2.39	0.5797	0.4009	0.0192	6.9	37 588	17 486			
32 560	-1 560c	69.41	45.75	2.38	0.5905	0.3892	0.0202	3.4	38 591	17 487			
33 568	0 405	72.36	47.41	6.83	0.5715	0.3744	0.054	359.3	38 594	17 488	Rm		
33 568	7 435	74.82	47.12	20.46	0.5254	0.3308	0.1437	342.6	-1 493c	18 493			
33 569	10 450	76.8	46.66	33.78	0.4884	0.2967	0.2148	323.6	-1 499c	19 499			
34 570	12 460	78.12	46.71	42.77	0.4661	0.2786	0.2551	311.4	-1 507c	21 507			
34 571	13 465	78.03	46.16	46.77	0.4564	0.2699	0.2735	305.7	-1 512c	22 512			
34 572	14 470	77.41	45.24	50.17	0.4478	0.2617	0.2903	300.6	-1 519c	23 519	Mm		
34 574	14 475	75.62	43.29	50.17	0.4472	0.256	0.2967	299.2	-1 522c	24 522			
35 578	15 480	73.28	41.14	52.95	0.4378	0.2458	0.3163	293.9	-1 531c	26 531			
37 585	17 485	68.65	37.88	56.85	0.4201	0.2318	0.3479	285.5	-1 543c	28 543			
40 600	17 490	54.09	28.26	56.84	0.3886	0.203	0.4083	272.8	-1 554c	30 554			
-1 495c	19 495	19.03	14.42	59.19	0.2054	0.1556	0.6388	231.6	12 464	34 571	min		
-1 500c	20 500	19.04	15.66	60.01	0.2011	0.1653	0.6335	229.7	13 467	34 571			
-1 509c	21 510	19.06	17.23	60.65	0.1966	0.1777	0.6255	227.3	13 469	34 572			
-1 520c	24 520	19.62	24.32	61.71	0.1857	0.2302	0.584	216.9	15 476	35 575	Bm		
-1 530c	26 530	20.87	30.78	62.03	0.1836	0.2707	0.5456	208.3	16 480	35 578			
-1 539c	27 540	21.87	34.38	62.13	0.1847	0.2904	0.5248	203.7	16 481	36 580			
-1 545c	29 545	24.72	42.08	62.24	0.1915	0.3261	0.4823	194.9	16 484	36 584			
-1 549c	29 550	24.72	42.08	62.24	0.1915	0.3261	0.4823	194.9	16 484	36 584			
-1 555c	31 555	28.88	50.16	62.29	0.2043	0.3549	0.4407	186.9	17 486	37 588			
-1 560c	32 560	31.51	54.24	62.3	0.2128	0.3663	0.4208	183.4	17 487	38 591			
W0	380 770	100.93	100.0	64.68	0.3799	0.3764	0.2435	0.0					
N0	380 770	4.03	4.0	2.58	0.3799	0.3764	0.2435	0.0					

CEX70-7N

TUB-test chart CEX7; Hue circle of the *Ostwald* optimal colours with Y values, Y_N=0,0, Y_W=100
Data: XYZ and YABC_{AB}h_{AB} as table with different wavelength, P40-02

1-000400-F0

Ostwald optimal colours (o), maximum (m) C _{AB} for P40, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	Y	A	B	C _{AB}	a	b	h _{xy}	i _d , λ _d	i _c , λ _c	Cod		
0 405	33 568	52.58	-61.26	-23.82	65.73	0.543	-0.4399	201.2	17 488	38 594	Cm		
7 435	33 568	52.87	-68.13	-10.01	68.86	0.4936	-0.3344	188.3	18 493	-1 493c			
10 450	33 569	53.33	-74.23	3.59	74.32	0.4523	-0.2317	177.2	19 499	-1 499c			
12 460	34 570	53.28	-77.42	12.55	78.43	0.4278	-0.1644	170.7	21 507	-1 507c			
13 465	34 571	53.83	-78.58	16.9	80.38	0.4251	-0.133	167.8	22 512	-1 512c			
14 470	34 572	54.75	-79.33	20.89	82.04	0.4294	-0.106	165.2	23 519	-1 519c	Gm		
14 475	34 574	56.7	-79.77	22.15	82.78	0.4463	-0.1023	164.4	24 522	-1 522c			
15 480	35 578	58.85	-79.36	26.33	83.62	0.4696	-0.0797	161.6	26 531	-1 531c			
17 485	37 585	62.11	-76.01	32.33	82.61	0.5194	-0.0504	156.9	28 543	-1 543c			
17 490	40 600	71.73	-63.89	38.54	74.62	0.6527	-0.0437	148.8	30 554	-1 554c			
19 495	-1 495c	85.57	-11.18	49.84	51.08	0.9567	-0.0256	102.6	34 571	12 464	ma		
20 500	-1 500c	84.33	-8.08	49.86	50.51	0.9706	-0.0221	99.2	34 571	13 467			
21 510	-1 509c	82.76	-4.16	49.48	49.66	0.9889	-0.0195	94.8	34 572	13 469			
24 520	-1 520c	75.67	12.33	45.96	47.59	1.0742	-0.0157	74.9	35 575	15 476	Ym		
26 530	-1 530c	69.21	25.48	42.11	49.22	1.1562	-0.0153	58.8	35 578	16 480			
27 540	-1 539c	65.61	32.07	39.88	51.17	1.2045	-0.0155	51.1	36 580	16 481			
29 545	-1 545c	57.91	44.38	35.0	56.53	1.3156	-0.0168	38.2	36 584	16 484			
29 550	-1 549c	57.91	44.38	35.0	56.53	1.3156	-0.0168	38.2	36 584	16 484			
31 555	-1 555c	49.83	54.37	29.82	62.01	1.4455	-0.0192	28.7	37 588	17 486			
32 560	-1 560c	45.75	58.08	27.2	64.13	1.5168	-0.0208	25.0	38 591	17 487			
33 568	0 405	47.41	61.26	23.82	65.73	1.5259	-0.0576	21.2	38 594	17 488	Rm		
33 568	7 435	47.12	68.13	10.01	68.86	1.5873	-0.1736	8.3	-1 493c	18 493			
33 569	10 450	46.66	74.22	-3.59	74.31	1.6453	-0.2894	357.2	-1 499c	19 499			
34 570	12 460	46.71	77.4	-12.54	78.41	1.6719	-0.3661	350.7	-1 507c	21 507			
34 571	13 465	46.16	78.57	-16.9	80.37	1.6899	-0.4051	347.8	-1 512c	22 512			
34 572	14 470	45.24	79.32	-20.89	82.02	1.7102	-0.4434	345.2	-1 519c	23 519	Mm		
34 574	14 475	43.29	79.75	-22.15	82.77	1.7458	-0.4633	344.4	-1 522c	24 522			
35 578	15 480	41.14	79.34	-26.32	83.6	1.7805	-0.5146	341.6	-1 531c	26 531			
37 585	17 485	37.88	75.99	-32.32	82.58	1.8114	-0.5999	336.9	-1 543c	28 543			
40 600	17 490	28.26	63.87	-38.53	74.59	1.913	-0.804	328.8	-1 554c	30 554			
-1 495c	19 495	14.42	11.17	-49.82	51.06	1.3189	-1.6404	282.6	12 464	34 571	min		
-1 500c	20 500	15.66	8.08	-49.84	50.49	1.2155	-1.5316	279.2	13 467	34 571			
-1 509c	21 510	17.23	4.16	-49.46	49.64	1.1056	-1.4065	274.8	13 469	34 572			
-1 520c	24 520	24.32	-12.33	-45.95	47.58	0.8062	-1.0143	254.9	15 476	35 575	Bm		
-1 530c	26 530	30.78	-25.47	-42.1	49.21	0.6779	-0.8058	238.8	16 480	35 578			
-1 539c	27 540	34.38	-32.07	-39.87	51.17	0.6359	-0.7225	231.1	16 481	36 580			
-1 545c	29 545	42.08	-44.38	-35.0	56.52	0.5871	-0.5913	218.2	16 484	36 584			
-1 549c	29 550	42.08	-44.38	-35.0	56.52	0.5871	-0.5913	218.2	16 484	36 584			
-1 555c	31 555	50.16	-54.37	-29.82	62.01	0.5755	-0.4965	208.7	17 486	37 588			
-1 560c	32 560	54.24	-58.08	-27.2	64.13	0.5807	-0.4593	205.0	17 487	38 591			
W0 380	770	100.0	0.0	0.0	0.0	1.009	-0.2586	0.0	B _c =1,000				
N0 380	770	4.0	0.0	0.0	0.0	1.009	-0.2586	0.0	x _c =0,000				

see similar files: <http://farbe.li-tu-berlin.de/CEX7/CEX7.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) C _{AB} for P35, Y _N =0, Y _W =100, Y _m =520_770														
i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code			
1 405 34 570	27.62	51.69	46.71	0.2192	0.4101	0.3706	173.9	18 490	39 596	Cm				
7 435 34 570	25.87	51.92	36.64	0.226	0.4537	0.3202	160.5	18 494	47 638					
9 450 34 571	25.05	52.37	29.76	0.2337	0.4886	0.2776	150.1	19 498	-1 498c					
12 460 34 572	23.75	52.73	18.76	0.2493	0.5535	0.197	133.5	21 507	-1 507c					
12 465 34 572	24.35	53.37	18.76	0.2523	0.5531	0.1945	133.1	21 508	-1 508c					
14 470 34 573	24.31	53.91	12.58	0.2677	0.5936	0.1385	123.9	23 519	-1 519c	Gm				
14 475 35 575	25.22	54.86	12.58	0.2721	0.592	0.1358	123.3	24 520	-1 520c					
15 480 35 578	27.58	57.07	10.22	0.2907	0.6015	0.1077	118.3	26 530	-1 530c					
17 485 36 583	31.53	59.83	6.85	0.321	0.6091	0.0698	110.9	28 542	-1 542c					
18 490 38 593	41.34	66.26	5.7	0.3648	0.5847	0.0503	101.5	30 552	-1 552c					
19 495 52 661	83.92	85.38	4.8	0.482	0.4903	0.0275	52.2	34 572	12 460	max				
20 500 -1 500c	86.17	85.09	4.06	0.4914	0.4853	0.0231	47.5	34 573	13 468					
22 510 -1 510c	86.09	81.87	3.05	0.5034	0.4787	0.0178	41.7	34 574	14 473					
23 520 -1 519c	85.94	79.68	2.73	0.5104	0.4732	0.0162	38.0	35 576	15 475	Ym				
26 530 -1 530c	84.45	71.0	2.2	0.5356	0.4503	0.0139	24.5	35 579	16 481					
27 540 -1 539c	83.5	67.55	2.11	0.5451	0.441	0.0137	19.8	36 581	16 483					
29 545 -1 545c	80.73	60.08	2.0	0.5652	0.4206	0.014	10.6	37 585	17 486					
29 550 -1 549c	80.73	60.08	2.0	0.5652	0.4206	0.014	10.6	37 585	17 486					
31 555 -1 555c	76.62	52.1	1.95	0.5863	0.3986	0.0149	2.5	37 589	17 488					
32 560 -1 560c	73.99	48.02	1.94	0.5968	0.3874	0.0156	359.0	38 591	17 489					
34 570 1 405	76.03	48.3	5.71	0.5846	0.3714	0.0439	353.9	39 596	18 490	Rm				
34 570 7 435	77.79	48.07	15.78	0.5491	0.3393	0.1114	340.5	47 638	18 494					
34 571 9 450	78.61	47.62	22.67	0.5279	0.3198	0.1522	330.1	-1 498c	19 498					
34 572 12 460	79.91	47.26	33.66	0.4968	0.2938	0.2093	313.6	-1 507c	21 507					
34 572 12 465	79.31	46.62	33.66	0.4969	0.2921	0.2109	313.1	-1 508c	21 508					
34 573 14 470	79.35	46.08	39.84	0.48	0.2788	0.241	304.0	-1 519c	23 519	Mm				
35 575 14 475	78.44	45.13	39.84	0.4799	0.2761	0.2438	303.3	-1 520c	24 520					
35 578 15 480	76.08	42.92	42.2	0.4719	0.2662	0.2617	298.4	-1 530c	26 530					
36 583 17 485	72.13	40.16	45.57	0.4569	0.2543	0.2886	290.9	-1 542c	28 542					
38 593 18 490	62.31	33.73	46.72	0.4364	0.2362	0.3272	281.6	-1 552c	30 552					
52 661 19 495	19.74	14.61	47.63	0.2407	0.1782	0.5809	232.3	12 460	34 572	min				
-1 500c 20 500	17.48	14.9	48.36	0.2165	0.1845	0.5989	227.5	13 468	34 573					
-1 510c 22 510	17.56	18.12	49.37	0.2065	0.213	0.5804	221.8	14 473	34 574					
-1 519c 23 520	17.72	20.31	49.69	0.202	0.2315	0.5664	218.0	15 475	35 576	Bm				
-1 530c 26 530	19.2	28.99	50.22	0.1951	0.2945	0.5103	204.5	16 481	35 579					
-1 539c 27 540	20.16	32.44	50.32	0.1958	0.3151	0.4889	199.8	16 483	36 581					
-1 545c 29 545	22.92	39.91	50.42	0.2024	0.3524	0.4451	190.6	17 486	37 585					
-1 549c 29 550	22.92	39.91	50.42	0.2024	0.3524	0.4451	190.6	17 486	37 585					
-1 555c 31 555	27.03	47.89	50.47	0.2156	0.3819	0.4024	182.5	17 488	37 589					
-1 560c 32 560	29.66	51.97	50.48	0.2245	0.3933	0.3821	179.0	17 489	38 591					
W0 380 770	103.66	99.99	52.43	0.4047	0.3904	0.2047	0.0							
N0 380 770	4.14	3.99	2.09	0.4047	0.3904	0.2047	0.0							

CEX70-7N

TUB-test chart CEX7; Hue circle of the *Ostwald* optimal colours with Y values, Y_N=0,0, Y_W=100
Data: XYZ and YABC_{AB}h_{AB} as table with different wavelength, P35-02

1-000500-F0

Ostwald optimal colours (o), maximum (m) C _{AB} for P35, Y _N =0, Y _W =100, Y _m =520_770														
i ₁ , λ ₁	i ₂ , λ ₂	Y	A	B	C _{AB}	a	b	h _{xy}	i _d , λ _d	i _c , λ _c	Code			
1 405 34 570	51.69	-64.87	-19.6	67.77	0.5343	-0.3614	196.8	18 490	39 596	Cm				
7 435 34 570	51.92	-69.87	-9.41	70.5	0.4981	-0.2822	187.6	18 494	47 638					
9 450 34 571	52.37	-73.08	-2.3	73.11	0.4782	-0.2272	181.8	19 498	-1 498c					
12 460 34 572	52.73	-77.25	8.87	77.75	0.4504	-0.1423	173.4	21 507	-1 507c					
12 465 34 572	53.37	-77.43	9.21	77.98	0.4561	-0.1406	173.2	21 508	-1 508c					
14 470 34 573	53.91	-78.91	15.68	80.46	0.4509	-0.0933	168.7	23 519	-1 519c	Gm				
14 475 35 575	54.86	-79.1	16.17	80.74	0.4596	-0.0917	168.4	24 520	-1 520c					
15 480 35 578	57.07	-78.92	19.69	81.34	0.4832	-0.0716	165.9	26 530	-1 530c					
17 485 36 583	59.83	-76.21	24.51	80.06	0.5269	-0.0458	162.1	28 542	-1 542c					
18 490 38 593	66.26	-68.33	29.02	74.24	0.6239	-0.0344	156.9	30 552	-1 552c					
19 495 52 661	85.38	-11.45	39.95	41.56	0.9827	-0.0224	105.9	34 572	12 460	max				
20 500 -1 500c	85.09	-5.08	40.54	40.85	1.0125	-0.0191	97.1	34 573	13 468					
22 510 -1 510c	81.87	3.06	39.86	39.98	1.0513	-0.0149	85.6	34 574	14 473					
23 520 -1 519c	79.68	8.35	39.03	39.91	1.0783	-0.0137	77.9	35 576	15 475	Ym				
26 530 -1 530c	71.0	27.11	35.01	44.28	1.1891	-0.0124	52.2	35 579	16 481					
27 540 -1 539c	67.55	33.66	33.3	47.35	1.2357	-0.0125	44.6	36 581	16 483					
29 545 -1 545c	60.08	46.12	29.48	54.74	1.3435	-0.0133	32.5	37 585	17 486					
29 550 -1 549c	60.08	46.12	29.48	54.74	1.3435	-0.0133	32.5	37 585	17 486					
31 555 -1 555c	52.1	56.52	25.35	61.95	1.4703	-0.015	24.1	37 589	17 488					
32 560 -1 560c	48.02	60.5	23.23	64.81	1.5403	-0.0161	21.0	38 591	17 489					
34 570 1 405	48.3	64.87	19.6	67.77	1.5735	-0.0473	16.8	39 596	18 490	Rm				
34 570 7 435	48.07	69.86	9.41	70.49	1.6176	-0.1313	7.6	47 638	18 494					
34 571 9 450	47.62	73.07	2.3	73.11	1.6501	-0.1903	1.8	-1 498c	19 498					
34 572 12 460	47.26	77.23	-8.87	77.74	1.69	-0.2847	353.4	-1 507c	21 507					
34 572 12 465	46.62	77.42	-9.21	77.97	1.7006	-0.2887	353.2	-1 508c	21 508					
34 573 14 470	46.08	78.9	-15.67	80.44	1.7213	-0.3457	348.7	-1 519c	23 519	Mm				
35 575 14 475	45.13	79.09	-16.17	80.72	1.7373	-0.353	348.4	-1 520c	24 520					
35 578 15 480	42.92	78.9	-19.68	81.32	1.7716	-0.3931	345.9	-1 530c	26 530					
36 583 17 485	40.16	76.19	-24.5	80.04	1.7953	-0.4537	342.1	-1 542c	28 542					
38 593 18 490	33.73	68.31	-29.02	74.22	1.8463	-0.5537	336.9	-1 552c	30 552					
52 661 19 495	14.61	11.44	-39.94	41.55	1.3497	-1.3026	285.9	12 460	34 572	min				
-1 500c 20 500	14.9	5.08	-40.52	40.84	1.1728	-1.2974	277.1	13 468	34 573					
-1 510c 22 510	18.12	-3.06	-39.85	39.97	0.9687	-1.0891	265.6	14 473	34 574					
-1 519c 23 520	20.31	-8.35	-39.02	39.9	0.8718	-0.9778	257.9	15 475	35 576	Bm				
-1 530c 26 530	28.99	-27.11	-35.01	44.28	0.6623	-0.6927	232.2	16 481	35 579					
-1 539c 27 540	32.44	-33.66	-33.29	47.35	0.6213	-0.6202	224.6	16 483	36 581					
-1 545c 29 545	39.91	-46.12	-29.48	54.74	0.5742	-0.5051	212.5	17 486	37 585					
-1 549c 29 550	39.91	-46.12	-29.48	54.74	0.5742	-0.5051	212.5	17 486	37 585					
-1 555c 31 555	47.89	-56.52	-25.35	61.95	0.5643	-0.4214	204.1	17 488	37 589					
-1 560c 32 560	51.97	-60.5	-23.23	64.81	0.5707	-0.3884	201.0	17 489	38 591					
W0 380 770	99.99	0.0	0.0	0.0	1.0364	-0.2096	0.0	B _c =1,000						
N0 380 770	3.99	0.0	0.0	0.0	1.0364	-0.2096	0.0	x _c =0,000						

see similar files: <http://farbe.li-tu-berlin.de/CEX7/CEX7.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) C_{AB} for P30, $Y_N=0$, $Y_W=100$, $Y_m=520_770$													
i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code		
0	405	34	573	27.84	51.22	35.42	0.2432	0.4474	0.3093	167.2	18 493	39 598	Cm
6	435	34	573	27.06	51.43	30.55	0.2482	0.4716	0.2801	160.1	19 495	42 612	
10	450	34	573	25.56	51.68	20.74	0.2608	0.5273	0.2117	144.8	20 502	-1 502c	
12	460	34	574	25.09	52.01	15.19	0.2718	0.5635	0.1646	135.8	21 508	-1 508c	
13	465	34	574	25.13	52.35	12.61	0.2789	0.581	0.14	131.6	22 512	-1 512c	
14	470	35	575	24.95	52.26	10.36	0.2848	0.5967	0.1183	128.1	23 518	-1 518c	Gm
15	475	35	576	25.93	53.17	8.48	0.2961	0.607	0.0968	124.5	25 525	-1 525c	
16	480	35	579	27.78	54.74	6.95	0.3104	0.6118	0.0776	121.1	26 533	-1 533c	
17	485	36	582	30.65	56.86	5.73	0.3286	0.6098	0.0615	117.5	28 540	-1 540c	
18	490	37	589	37.25	61.42	4.77	0.36	0.5937	0.0461	111.8	29 549	-1 549c	
19	495	41	606	54.51	71.0	4.0	0.4208	0.5481	0.0309	96.0	32 561	-1 561c	
20	500	-1	500c	92.01	85.97	3.38	0.5073	0.474	0.0186	44.6	35 575	13 469	max
21	510	-1	509c	91.99	84.73	2.88	0.5122	0.4717	0.016	41.7	35 576	14 472	
24	520	-1	520c	91.53	78.86	2.01	0.5309	0.4574	0.0116	29.4	35 578	15 479	Ym
25	530	-1	529c	91.09	76.2	1.85	0.5385	0.4505	0.0109	24.5	36 580	16 481	
28	540	-1	540c	88.37	66.53	1.58	0.5647	0.4251	0.0101	9.4	36 584	17 486	
29	545	-1	545c	86.89	62.86	1.54	0.5743	0.4154	0.0102	4.7	37 586	17 488	
30	550	-1	550c	85.08	59.03	1.51	0.5842	0.4053	0.0104	0.5	37 588	17 489	
31	555	-1	555c	82.88	55.07	1.49	0.5943	0.3949	0.0107	356.7	38 590	18 490	
32	560	-1	560c	80.27	51.03	1.48	0.6045	0.3843	0.0111	353.3	38 592	18 491	
34	573	0	405	80.19	48.77	4.13	0.6025	0.3664	0.031	347.3	39 598	18 493	Rm
34	573	6	435	80.97	48.56	9.0	0.5844	0.3505	0.0649	340.2	42 612	19 495	
34	573	10	450	82.48	48.31	18.8	0.5513	0.3229	0.1256	324.8	-1 502c	20 502	
34	574	12	460	82.94	47.98	24.35	0.5341	0.3089	0.1568	315.8	-1 508c	21 508	
34	574	13	465	82.9	47.64	26.93	0.5264	0.3025	0.171	311.6	-1 512c	22 512	
35	575	14	470	83.09	47.73	29.18	0.5192	0.2983	0.1823	308.1	-1 518c	23 518	Mm
35	576	15	475	82.1	46.82	31.07	0.5131	0.2926	0.1941	304.6	-1 525c	25 525	
35	579	16	480	80.26	45.25	32.59	0.5076	0.2862	0.2061	301.2	-1 533c	26 533	
36	582	17	485	77.39	43.13	33.81	0.5014	0.2794	0.219	297.6	-1 540c	28 540	
37	589	18	490	70.79	38.57	34.77	0.4911	0.2675	0.2412	291.9	-1 549c	29 549	
41	606	19	495	53.52	28.99	35.54	0.4533	0.2455	0.301	276.1	-1 561c	32 561	
-1	500c	20	500	16.02	14.02	36.16	0.242	0.2118	0.5461	224.6	13 469	35 575	min
-1	509c	21	510	16.04	15.26	36.66	0.236	0.2246	0.5393	221.8	14 472	35 576	
-1	520c	24	520	16.5	21.13	37.54	0.2195	0.2811	0.4993	209.5	15 479	35 578	Bm
-1	529c	25	530	16.95	23.79	37.69	0.216	0.3033	0.4805	204.5	16 481	36 580	
-1	540c	28	540	19.66	33.46	37.96	0.2158	0.3673	0.4167	189.4	17 486	36 584	
-1	545c	29	545	21.14	37.13	38.0	0.2195	0.3856	0.3947	184.8	17 488	37 586	
-1	550c	30	550	22.96	40.96	38.03	0.2251	0.4017	0.373	180.5	17 489	37 588	
-1	555c	31	555	25.15	44.92	38.05	0.2326	0.4154	0.3518	176.7	18 490	38 590	
-1	560c	32	560	27.76	48.96	38.06	0.2418	0.4265	0.3315	173.3	18 491	38 592	
W0	380	770	108.04	100.0	39.55	0.4363	0.4038	0.1597	0.0				
N0	380	770	4.32	4.0	1.58	0.4363	0.4038	0.1597	0.0				

CEX70-7N

TUB-test chart CEX7; Hue circle of the *Ostwald* optimal colours with Y values, $Y_N=0,0$, $Y_W=100$
Data: XYZ and $YABC_{AB}h_{AB}$ as table with different wavelength, P30-02

1-000600-F0

Ostwald optimal colours (o), maximum (m) C_{AB} for P30, $Y_N=0$, $Y_W=100$, $Y_m=520_770$													
i_1, λ_1	i_2, λ_2	Y	A	B	C_{AB}	a	b	h_{xy}	i_d, λ_d	i_c, λ_c	Code		
0	405	34	573	51.22	-68.72	-15.15	70.38	0.5434	-0.2765	192.4	18 493	39 598	Cm
6	435	34	573	51.43	-71.22	-10.2	71.95	0.5261	-0.2375	188.1	19 495	42 612	
10	450	34	573	51.68	-75.66	-0.31	75.66	0.4945	-0.1605	180.2	20 502	-1 502c	
12	460	34	574	52.01	-77.74	5.37	77.92	0.4823	-0.1168	176.0	21 508	-1 508c	
13	465	34	574	52.35	-78.54	8.08	78.96	0.48	-0.0963	174.1	22 512	-1 512c	
14	470	35	575	52.26	-78.76	10.29	79.43	0.4773	-0.0793	172.5	23 518	-1 518c	Gm
15	475	35	576	53.17	-78.75	12.54	79.74	0.4877	-0.0637	170.9	25 525	-1 525c	
16	480	35	579	54.74	-78.39	14.69	79.76	0.5073	-0.0507	169.3	26 533	-1 533c	
17	485	36	582	56.86	-76.94	16.75	78.74	0.5389	-0.0403	167.7	28 540	-1 540c	
18	490	37	589	61.42	-72.77	19.51	75.34	0.6062	-0.031	164.9	29 549	-1 549c	
19	495	41	606	71.0	-55.49	24.06	60.48	0.7675	-0.0225	156.5	32 561	-1 561c	
20	500	-1	500c	85.97	-2.17	30.6	30.68	1.07	-0.0157	94.0	35 575	13 469	max
21	510	-1	509c	84.73	1.13	30.62	30.64	1.0855	-0.0136	87.8	35 576	14 472	
24	520	-1	520c	78.86	15.82	29.17	33.18	1.1604	-0.0101	61.5	35 578	15 479	Ym
25	530	-1	529c	76.2	21.89	28.28	35.76	1.195	-0.0097	52.2	36 580	16 481	
28	540	-1	540c	66.53	41.21	24.72	48.06	1.3279	-0.0095	30.9	36 584	17 486	
29	545	-1	545c	62.86	47.43	23.31	52.85	1.3819	-0.0098	26.1	37 586	17 488	
30	550	-1	550c	59.03	53.23	21.82	57.53	1.4408	-0.0102	22.2	37 588	17 489	
31	555	-1	555c	55.07	58.42	20.28	61.84	1.5045	-0.0108	19.1	38 590	18 490	
32	560	-1	560c	51.03	62.81	18.69	65.54	1.5725	-0.0116	16.5	38 592	18 491	
34	573	0	405	48.77	68.72	15.15	70.37	1.6437	-0.0338	12.4	39 598	18 493	Rm
34	573	6	435	48.56	71.22	10.2	71.95	1.6667	-0.0741	8.1	42 612	19 495	
34	573	10	450	48.31	75.65	0.31	75.65	1.7064	-0.1555	0.2	-1 502c	20 502	
34	574	12	460	47.98	77.73	-5.37	77.91	1.7281	-0.2029	356.0	-1 508c	21 508	
34	574	13	465	47.64	78.53	-8.08	78.95	1.7395	-0.226	354.1	-1 512c	22 512	
35	575	14	470	47.73	78.75	-10.29	79.42	1.74	-0.2444	352.5	-1 518c	23 518	Mm
35	576	15	475	46.82	78.73	-12.54	79.73	1.7527	-0.2653	350.9	-1 525c	25 525	
35	579	16	480	45.25	78.37	-14.69	79.74	1.7729	-0.288	349.3	-1 533c	26 533	
36	582	17	485	43.13	76.92	-16.74	78.72	1.7935	-0.3134	347.7	-1 540c	28 540	
37	589	18	490	38.57	72.75	-19.51	75.32	1.8346	-0.3605	344.9	-1 549c	29 549	
41	606	19	495	28.99	55.47	-24.06	60.47	1.8456	-0.4901	336.5	-1 561c	32 561	
-1	500c	20	500	14.02	2.17	-30.6	30.67	1.1422	-1.0308	274.0	13 469	35 575	min
-1	509c	21	510	15.26	-1.13	-30.61	30.63	1.0503	-0.9601	267.8	14 472	35 576	
-1	520c	24	520	21.13	-15.82	-29.16	33.18	0.7807	-0.7102	241.5	15 479	35 578	Bm
-1	529c	25	530	23.79	-21.89	-28.27	35.76	0.7121	-0.6335	232.2	16 481	36 580	
-1	540c	28	540	33.46	-41.21	-24.72	48.06	0.5875	-0.4536	210.9	17 486	36 584	
-1	545c	29	545	37.13	-47.43	-23.31	52.85	0.5692	-0.4092	206.1	17 488	37 586	
-1	550c	30	550	40.96	-53.23	-21.82	57.53	0.5603	-0.3712	202.2	17 489	37 588	
-1	555c	31	555	44.92	-58.42	-20.28	61.84	0.5599	-0.3387	199.1	18 490	38 590	
-1	560c	32	560	48.96	-62.81	-18.69	65.54	0.5669	-0.3109	196.5	18 491	38 592	
W0	380	770	100.0	0.0	0.0	0.0	0.0	1.0801	-0.1581	0.0	$B_c=1,000$		
N0	380	770	4.0	0.0	0.0	0.0	0.0	1.0801	-0.1581	0.0	$x_c=0,000$		

CEX71-7N

TUB registration: 20201101-CEX7/CEX7LONP.PDF /.PS
application for evaluation and measurement of display or print output

TUB material: code=rha4ta

see similar files: <http://farbe.li-tu-berlin.de/CEX7/CEX7.HTM>
technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Ostwald optimal colours (o), maximum (m) C _{AB} for P25, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
1 405	35 576	28.16	49.8	23.76	0.2768	0.4895	0.2336	159.1	19 497	40 601	Cm		
6 435	35 576	27.77	49.94	21.06	0.2811	0.5055	0.2132	154.7	19 499	42 611			
10 450	35 577	26.88	50.11	14.93	0.2924	0.545	0.1624	144.4	20 504	-1 504c			
11 460	35 577	26.93	50.41	13.09	0.2978	0.5573	0.1447	141.1	21 506	-1 506c			
13 465	35 577	26.68	50.55	9.44	0.3078	0.5832	0.1089	134.8	22 513	-1 513c			
14 470	35 578	26.98	50.92	7.85	0.3146	0.5937	0.0916	131.9	23 518	-1 518c	Gm		
15 475	35 579	27.64	51.52	6.49	0.3226	0.6014	0.0758	129.2	25 525	-1 525c			
16 480	36 580	28.23	51.92	5.36	0.33	0.6071	0.0627	127.0	26 531	-1 531c			
17 485	36 582	30.65	53.69	4.45	0.3452	0.6046	0.0501	124.4	27 539	-1 539c			
18 490	37 586	34.43	56.27	3.71	0.3646	0.5959	0.0393	121.4	29 546	-1 546c			
18 495	38 594	43.49	62.51	3.72	0.3963	0.5696	0.0339	117.1	30 553	-1 553c			
20 500	44 620	72.07	75.83	2.63	0.4787	0.5037	0.0174	88.4	34 570	-1 570c			
21 510	-1 509c	100.28	85.96	2.22	0.5321	0.456	0.0118	37.2	35 578	14 474	max		
24 520	-1 520c	99.89	81.0	1.49	0.5476	0.4441	0.0081	23.1	36 581	16 481	Ym		
25 530	-1 529c	99.5	78.68	1.35	0.5542	0.4382	0.0075	17.5	36 582	16 484			
28 540	-1 540c	97.04	69.94	1.11	0.5772	0.416	0.0066	1.4	37 586	17 489			
28 545	-1 544c	97.04	69.94	1.11	0.5772	0.416	0.0066	1.4	37 586	17 489			
29 550	-1 549c	95.66	66.52	1.07	0.5859	0.4074	0.0065	356.7	37 588	18 491			
30 555	-1 554c	93.94	62.89	1.05	0.5949	0.3983	0.0066	352.6	37 589	18 492			
32 560	-1 560c	89.27	55.14	1.01	0.6138	0.3791	0.007	345.9	38 594	18 494			
35 576	1 405	87.02	50.19	2.82	0.6213	0.3584	0.0202	339.1	40 601	19 497	Rm		
35 576	6 435	87.4	50.05	5.52	0.6112	0.35	0.0386	334.7	42 611	19 499			
35 577	10 450	88.29	49.88	11.65	0.5892	0.3329	0.0777	324.4	-1 504c	20 504			
35 577	11 460	88.24	49.58	13.49	0.5831	0.3276	0.0892	321.1	-1 506c	21 506			
35 577	13 465	88.49	49.44	17.14	0.5706	0.3187	0.1105	314.8	-1 513c	22 513			
35 578	14 470	88.2	49.08	18.73	0.5653	0.3145	0.12	311.9	-1 518c	23 518	Mm		
35 579	15 475	87.54	48.47	20.09	0.5607	0.3104	0.1287	309.3	-1 525c	25 525			
36 580	16 480	86.95	48.07	21.22	0.5564	0.3076	0.1358	307.1	-1 531c	26 531			
36 582	17 485	84.52	46.3	22.13	0.5525	0.3027	0.1447	304.5	-1 539c	27 539			
37 586	18 490	80.75	43.72	22.87	0.548	0.2967	0.1552	301.5	-1 546c	29 546			
38 594	18 495	71.68	37.48	22.86	0.5429	0.2838	0.1731	297.1	-1 553c	30 553			
44 620	20 500	43.1	24.16	23.96	0.4724	0.2648	0.2626	268.5	-1 570c	34 570			
-1 509c	21 510	14.89	14.03	24.37	0.2794	0.2633	0.4571	217.3	14 474	35 578	min		
-1 520c	24 520	15.29	18.99	25.1	0.2574	0.3198	0.4226	203.1	16 481	36 581	Bm		
-1 529c	25 530	15.67	21.31	25.23	0.2519	0.3425	0.4055	197.5	16 484	36 582			
-1 540c	28 540	18.14	30.05	25.47	0.2462	0.4079	0.3458	181.4	17 489	37 586			
-1 544c	28 545	18.14	30.05	25.47	0.2462	0.4079	0.3458	181.4	17 489	37 586			
-1 549c	29 550	19.51	33.47	25.51	0.2485	0.4263	0.325	176.7	18 491	37 588			
-1 554c	30 555	21.24	37.1	25.54	0.2532	0.4423	0.3044	172.6	18 492	37 589			
-1 560c	32 560	25.9	44.85	25.57	0.2689	0.4656	0.2654	165.9	18 494	38 594			
W0	380	770	115.18	100.0	0.4764	0.4136	0.1099	0.0					
N0	380	770	4.6	4.0	1.06	0.4764	0.4136	0.1099	0.0				

CEX70-7N

TUB-test chart CEX7; Hue circle of the *Ostwald* optimal colours with Y values, Y_N=0,0, Y_W=100
Data: XYZ and YABC_{AB}h_{AB} as table with different wavelength, P25-02

1-000700-F0

Ostwald optimal colours (o), maximum (m) C _{AB} for P25, Y _N =0, Y _W =100, Y _m =520_770													
i ₁ , λ ₁	i ₂ , λ ₂	Y	A	B	C _{AB}	a	b	h _{xy}	i _d , λ _d	i _c , λ _c	Code		
1 405	35 576	49.8	-72.99	-10.51	73.74	0.5653	-0.1908	188.1	19 497	40 601	Cm		
6 435	35 576	49.94	-74.35	-7.78	74.76	0.556	-0.1686	185.9	19 499	42 611			
10 450	35 577	50.11	-77.06	-1.61	77.08	0.5364	-0.1192	181.1	20 504	-1 504c			
11 460	35 577	50.41	-77.81	0.31	77.81	0.5342	-0.1038	179.7	21 506	-1 506c			
13 465	35 577	50.55	-78.85	3.99	78.95	0.5276	-0.0747	177.0	22 513	-1 513c			
14 470	35 578	50.92	-79.15	5.68	79.35	0.5297	-0.0617	175.8	23 518	-1 518c	Gm		
15 475	35 579	51.52	-79.24	7.2	79.57	0.5363	-0.0504	174.8	25 525	-1 525c			
16 480	36 580	51.92	-78.93	8.43	79.38	0.5435	-0.0413	173.8	26 531	-1 531c			
17 485	36 582	53.69	-77.94	9.82	78.56	0.5708	-0.0331	172.8	27 539	-1 539c			
18 490	37 586	56.27	-75.95	11.24	76.78	0.6116	-0.0264	171.5	29 546	-1 546c			
18 495	38 594	62.51	-71.25	12.89	72.4	0.6956	-0.0238	169.7	30 553	-1 553c			
20 500	44 620	75.83	-38.16	17.53	41.99	0.9502	-0.0138	155.3	34 570	-1 570c			
21 510	-1 509c	85.96	3.19	20.63	20.87	1.1664	-0.0103	81.2	35 578	14 474	max		
24 520	-1 520c	81.0	16.47	20.04	25.94	1.2329	-0.0073	50.5	36 581	16 481	Ym		
25 530	-1 529c	78.68	22.19	19.56	29.58	1.2643	-0.0068	41.4	36 582	16 484			
28 540	-1 540c	69.94	41.18	17.48	44.74	1.387	-0.0063	22.9	37 586	17 489			
28 545	-1 544c	69.94	41.18	17.48	44.74	1.387	-0.0063	22.9	37 586	17 489			
29 550	-1 549c	66.52	47.59	16.61	50.4	1.4377	-0.0064	19.2	37 588	18 491			
30 555	-1 554c	62.89	53.73	15.67	55.96	1.4932	-0.0066	16.2	37 589	18 492			
32 560	-1 560c	55.14	64.38	13.64	65.81	1.6186	-0.0073	11.9	38 594	18 494			
35 576	1 405	50.19	72.98	10.51	73.74	1.7332	-0.0225	8.1	40 601	19 497	Rm		
35 576	6 435	50.05	74.35	7.78	74.75	1.7457	-0.0441	5.9	42 611	19 499			
35 577	10 450	49.88	77.05	1.61	77.07	1.7694	-0.0934	1.1	-1 504c	20 504			
35 577	11 460	49.58	77.8	-0.31	77.8	1.7792	-0.1088	359.7	-1 506c	21 506			
35 577	13 465	49.44	78.84	-3.99	78.94	1.7894	-0.1387	357.0	-1 513c	22 513			
35 578	14 470	49.08	79.13	-5.68	79.34	1.7965	-0.1526	355.8	-1 518c	23 518	Mm		
35 579	15 475	48.47	79.23	-7.2	79.56	1.8054	-0.1658	354.8	-1 525c	25 525			
36 580	16 480	48.07	78.92	-8.43	79.37	1.8082	-0.1765	353.8	-1 531c	26 531			
36 582	17 485	46.3	77.93	-9.81	78.55	1.8248	-0.1911	352.8	-1 539c	27 539			
37 586	18 490	43.72	75.94	-11.24	76.77	1.8463	-0.2092	351.5	-1 546c	29 546			
38 594	18 495	37.48	71.23	-12.89	72.39	1.9117	-0.2439	349.7	-1 553c	30 553			
44 620	20 500	24.16	38.15	-17.52	41.98	1.783	-0.3964	335.3	-1 570c	34 570			
-1 509c	21 510	14.03	-3.18	-20.62	20.87	1.0606	-0.694	261.2	14 474	35 578	min		
-1 520c	24 520	18.99	-16.47	-20.04	25.94	0.8046	-0.5283	230.5	16 481	36 581	Bm		
-1 529c	25 530	21.31	-22.18	-19.56	29.58	0.7352	-0.4734	221.4	16 484	36 582			
-1 540c	28 540	30.05	-41.18	-17.48	44.74	0.6034	-0.339	202.9	17 489	37 586			
-1 544c	28 545	30.05	-41.18	-17.48	44.74	0.6034	-0.339	202.9	17 489	37 586			
-1 549c	29 550	33.47	-47.59	-16.61	50.4	0.5828	-0.3048	199.2	18 491	37 588			
-1 554c	30 555	37.1	-53.73	-15.67	55.97	0.5723	-0.2753	196.2	18 492	37 589			
-1 560c	32 560	44.85	-64.39	-13.64	65.82	0.5773	-0.228	191.9	18 494	38 594			
W0	380	770	100.0	0.0	0.0	1.1515	-0.1063	0.0	B _c =1,000				
N0	380	770	4.0	0.0	0.0	1.1515	-0.1063	0.0	x _c =0,000				

CEX71-7N

TUB registration: 20201101-CEX7/CEX7LONP.PDF /.PS
application for evaluation and measurement of display or print output

TUB material: code=rha4ta