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Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =520_770, CIEXYZ data															%
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀₀	Y ₁₀₀	Z ₁₀₀	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		%		
0 405	32 561	32.57	58.2	108.12	0.1637	0.2926	0.5436	193.7	16 483	37 589	Cm		%		
6 435	32 562	29.09	58.79	88.73	0.1647	0.3328	0.5023	178.4	17 486	42 610			%		
10 450	32 563	22.93	59.42	52.37	0.1702	0.441	0.3887	141.8	19 496	−1 496c			%		
12 460	33 565	20.88	60.32	34.02	0.1812	0.5234	0.2952	124.0	21 505	−1 505c			%		
12 465	33 567	21.95	61.66	34.03	0.1866	0.5241	0.2892	122.8	21 506	−1 506c			%		
14 470	33 569	21.46	62.72	19.98	0.206	0.602	0.1918	111.3	24 520	−1 520c			%		
15 475	34 573	23.76	65.29	14.91	0.2285	0.6279	0.1434	105.6	25 528	−1 528c	Gm		%		
16 480	36 580	29.0	69.95	11.05	0.2636	0.6358	0.1005	99.0	27 537	−1 537c			%		
17 485	39 595	42.11	78.75	8.23	0.3262	0.6099	0.0638	87.2	29 548	−1 548c			%		
18 490	−1 490c	77.09	93.8	6.13	0.4354	0.5298	0.0346	58.5	33 565	11 459	max		%		
19 495	−1 495c	77.04	92.3	4.52	0.4431	0.5308	0.026	57.1	33 566	12 462			%		
20 500	−1 500c	77.02	90.42	3.27	0.4511	0.5296	0.0191	55.3	33 567	12 464			%		
22 510	−1 510c	76.89	85.27	1.63	0.4694	0.5205	0.01	50.7	33 569	13 469			%		
23 520	−1 519c	76.66	81.98	1.16	0.4797	0.513	0.0072	47.7	34 570	14 471	Ym		%		
25 530	−1 529c	75.53	74.04	0.57	0.503	0.4931	0.0038	40.7	34 573	15 475			%		
27 540	−1 539c	73.26	64.9	0.26	0.5292	0.4688	0.0019	32.8	35 577	15 478			%		
28 545	−1 544c	71.66	60.13	0.18	0.5429	0.4556	0.0014	28.7	35 579	15 479			%		
29 550	−1 549c	69.7	55.26	0.13	0.5571	0.4417	0.001	24.7	36 582	16 480			%		
30 555	−1 554c	67.4	50.4	0.09	0.5716	0.4274	0.0008	20.8	36 584	16 481			%		
32 560	−1 560c	61.78	41.0	0.05	0.6007	0.3987	0.0005	13.6	37 589	16 483			%		
380	770	95.04	100.0	108.89	0.3127	0.329	0.3582	0.0					%		

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =770_520, CIEXYZ complementary															%
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀₀	Y ₁₀₀	Z ₁₀₀	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		%		
32 561	0 405	62.47	41.79	0.76	0.5947	0.3979	0.0072	13.7	37 589	16 483	Rm		%		
32 562	6 435	65.95	41.2	20.15	0.518	0.3236	0.1583	358.5	42 610	17 486			%		
32 563	10 450	72.11	40.57	56.51	0.4261	0.2398	0.334	321.8	-1 496c	19 496			%		
33 565	12 460	74.16	39.67	74.86	0.393	0.2102	0.3967	304.0	-1 505c	21 505			%		
33 567	12 465	73.08	38.33	74.86	0.3923	0.2057	0.4018	302.9	-1 506c	21 506			%		
33 569	14 470	73.57	37.27	88.9	0.3683	0.1866	0.445	291.3	-1 520c	24 520			%		
34 573	15 475	71.27	34.7	93.97	0.3564	0.1735	0.4699	285.7	-1 528c	25 528	Mm		%		
36 580	16 480	66.03	30.04	97.83	0.3405	0.1549	0.5045	279.1	-1 537c	27 537			%		
39 595	17 485	52.92	21.24	100.65	0.3027	0.1215	0.5757	267.2	-1 548c	29 548			%		
-1 490c	18 490	17.95	6.19	102.75	0.1414	0.0487	0.8097	238.5	11 459	33 565	min		%		
-1 495c	19 495	18.0	7.69	104.36	0.1384	0.0591	0.8024	237.1	12 462	33 566			%		
-1 500c	20 500	18.02	9.57	105.61	0.1352	0.0719	0.7928	235.4	12 464	33 567			%		
-1 510c	22 510	18.14	14.72	107.25	0.1295	0.105	0.7654	230.7	13 469	33 569			%		
-1 519c	23 520	18.37	18.01	107.72	0.1275	0.1249	0.7475	227.7	14 471	34 570	Bm		%		
-1 529c	25 530	19.5	25.95	108.31	0.1268	0.1687	0.7043	220.7	15 475	34 573			%		
-1 539c	27 540	21.77	35.09	108.62	0.1315	0.212	0.6563	212.8	15 478	35 577			%		
-1 544c	28 545	23.38	39.86	108.7	0.1359	0.2318	0.6321	208.8	15 479	35 579			%		
-1 549c	29 550	25.33	44.73	108.76	0.1416	0.2501	0.6081	204.7	16 480	36 582			%		
-1 554c	30 555	27.63	49.59	108.79	0.1485	0.2665	0.5848	200.8	16 481	36 584			%		
-1 560c	32 560	33.26	58.99	108.83	0.1654	0.2933	0.5412	193.6	16 483	37 589			%		
380	770	95.04	100.0	108.89	0.3127	0.329	0.3582	0.0					%		

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _{w,10} =100, Y _m =520_770, CIEXYZ data															%
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀₀	Y ₁₀₀	Z ₁₀₀	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code		%		
0 405	31 556	31.74	56.57	106.53	0.1629	0.2903	0.5467	195.0	15 476	37 585	Cm		%		
6 435	31 557	27.99	57.41	83.63	0.1656	0.3396	0.4947	176.6	16 480	44 621			%		
10 450	31 559	22.06	57.53	46.52	0.1749	0.4561	0.3688	137.9	18 491	−1 491c			%		
11 460	32 562	22.29	59.27	37.3	0.1875	0.4986	0.3137	126.9	19 498	−1 498c			%		
12 465	33 565	22.82	60.91	28.98	0.2025	0.5403	0.2571	117.9	21 506	−1 506c			%		
14 470	34 570	24.61	63.07	16.02	0.2373	0.6081	0.1544	105.3	24 522	−1 522c			%		
15 475	35 579	31.53	68.64	11.53	0.2822	0.6144	0.1032	96.3	26 533	−1 533c	Gm		%		
16 480	41 606	54.04	81.94	8.23	0.3746	0.5682	0.0571	75.5	30 550	−1 550c			%		
16 485	−1 484c	77.05	92.3	8.23	0.4339	0.5197	0.0463	57.5	32 560	10 454			%		
18 490	−1 490c	76.87	89.06	4.2	0.4518	0.5234	0.0247	54.3	32 562	11 459	max		%		
19 495	−1 495c	76.85	87.05	2.97	0.4605	0.5216	0.0178	52.4	32 563	12 461			%		
19 500	−1 499c	76.85	87.05	2.97	0.4605	0.5216	0.0178	52.4	32 563	12 461			%		
22 510	−1 510c	76.43	79.1	1.01	0.4882	0.5052	0.0064	44.9	33 567	13 466			%		
23 520	−1 519c	76.0	75.81	0.68	0.4983	0.4971	0.0045	41.9	33 568	13 468	Ym		%		
26 530	−1 530c	73.15	64.17	0.16	0.532	0.4667	0.0012	31.8	34 573	14 472			%		
27 540	−1 539c	71.61	59.9	0.08	0.5441	0.4551	0.0006	28.3	35 576	14 473			%		
28 545	−1 544c	69.75	55.54	0.04	0.5565	0.4431	0.0003	24.7	35 578	14 474			%		
29 550	−1 549c	67.56	51.12	0.01	0.5691	0.4306	0.0001	21.3	36 580	15 475			%		
31 555	−1 555c	62.15	42.37	0.0	0.5946	0.4053	0.0	14.8	37 586	15 476			%		
32 560	10 451	70.49	40.04	58.44	0.4171	0.2369	0.3458	317.7	−1 492c	18 492			%		
380	770	94.81	100.0	107.33	0.3137	0.3309	0.3552	0.0					%		

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _{w,10} =100, Y _m =770_520, CIEXYZ complementary															%
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀₀	Y ₁₀₀	Z ₁₀₀	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code			%	
31 556	0 405	63.06	43.42	0.8	0.5877	0.4047	0.0074	15.0	37 585	15 476	Rm			%	
31 557	6 435	66.81	42.58	23.7	0.5019	0.3199	0.178	356.6	44 621	16 480				%	
31 559	10 450	72.75	42.46	60.8	0.4132	0.2412	0.3454	317.9	-1 491c	18 491				%	
32 562	11 460	72.51	40.72	70.03	0.3956	0.2221	0.3821	307.0	-1 498c	19 498				%	
33 565	12 465	71.98	39.08	78.34	0.38	0.2063	0.4136	298.0	-1 506c	21 506				%	
34 570	14 470	70.19	36.92	91.31	0.3537	0.186	0.4601	285.4	-1 522c	24 522				%	
35 579	15 475	63.28	31.35	95.79	0.3323	0.1646	0.503	276.3	-1 533c	26 533	Mm			%	
41 606	16 480	40.77	18.05	99.09	0.2581	0.1143	0.6275	255.6	-1 550c	30 550				%	
-1 484c	16 485	17.75	7.69	99.09	0.1425	0.0618	0.7956	237.5	10 454	32 560				%	
-1 490c	18 490	17.94	10.93	103.13	0.1359	0.0828	0.7812	234.3	11 459	32 562	min			%	
-1 495c	19 495	17.96	12.94	104.35	0.1327	0.0957	0.7714	232.4	12 461	32 563				%	
-1 499c	19 500	17.96	12.94	104.35	0.1327	0.0957	0.7714	232.4	12 461	32 563				%	
-1 510c	22 510	18.38	20.89	106.32	0.1262	0.1435	0.7302	224.9	13 466	33 567				%	
-1 519c	23 520	18.8	24.18	106.64	0.1256	0.1616	0.7126	222.0	13 468	33 568	Bm			%	
-1 530c	26 530	21.65	35.82	107.16	0.1315	0.2175	0.6508	211.8	14 472	34 573				%	
-1 539c	27 540	23.19	40.09	107.24	0.136	0.2351	0.6288	208.3	14 473	35 576				%	
-1 544c	28 545	25.05	44.45	107.29	0.1417	0.2514	0.6068	204.8	14 474	35 578				%	
-1 549c	29 550	27.25	48.87	107.32	0.1485	0.2664	0.585	201.3	15 475	36 580				%	
-1 555c	31 555	32.65	57.62	107.33	0.1652	0.2916	0.5431	194.8	15 476	37 586				%	
10 451	32 560	24.31	59.95	48.88	0.1826	0.4502	0.3671	137.6	18 492	-1 492c				%	
380	770	94.81	100.0	107.33	0.3137	0.3309	0.3552	0.0						%	

see similar files: <http://130.149.60.45/~farbmetrik/VE37/VE37.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-VE37/VE37L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _w =100, Y _m =520_770, CIEXYZ data														%
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀₀	Y ₁₀₀	Z ₁₀₀	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code	%		
0 405	32 561	32.57	58.2	108.12	0.1637	0.2926	0.5436	193.7	16 483	37 589	Cm	%		
6 435	32 562	29.09	58.79	88.73	0.1647	0.3328	0.5023	178.4	17 486	42 610		%		
10 450	32 563	22.93	59.42	52.37	0.1702	0.441	0.3887	141.8	19 496	-1 496c		%		
12 460	33 565	20.88	60.32	34.02	0.1812	0.5234	0.2952	124.0	21 505	-1 505c		%		
12 465	33 567	21.95	61.66	34.03	0.1866	0.5241	0.2892	122.8	21 506	-1 506c		%		
14 470	33 569	21.46	62.72	19.98	0.206	0.602	0.1918	111.3	24 520	-1 520c		%		
15 475	34 573	23.76	65.29	14.91	0.2285	0.6279	0.1434	105.6	25 528	-1 528c	Gm	%		
16 480	36 580	29.0	69.95	11.05	0.2636	0.6358	0.1005	99.0	27 537	-1 537c		%		
17 485	39 595	42.11	78.75	8.23	0.3262	0.6099	0.0638	87.2	29 548	-1 548c		%		
18 490	-1 490c	77.09	93.8	6.13	0.4354	0.5298	0.0346	58.5	33 565	11 459	max	%		
19 495	-1 495c	77.04	92.3	4.52	0.4431	0.5308	0.026	57.1	33 566	12 462		%		
20 500	-1 500c	77.02	90.42	3.27	0.4511	0.5296	0.0191	55.3	33 567	12 464		%		
22 510	-1 510c	76.89	85.27	1.63	0.4694	0.5205	0.01	50.7	33 569	13 469		%		
23 520	-1 519c	76.66	81.98	1.16	0.4797	0.513	0.0072	47.7	34 570	14 471	Ym	%		
25 530	-1 529c	75.53	74.04	0.57	0.503	0.4931	0.0038	40.7	34 573	15 475		%		
27 540	-1 539c	73.26	64.9	0.26	0.5292	0.4688	0.0019	32.8	35 577	15 478		%		
28 545	-1 544c	71.66	60.13	0.18	0.5429	0.4556	0.0014	28.7	35 579	15 479		%		
29 550	-1 549c	69.7	55.26	0.13	0.5571	0.4417	0.001	24.7	36 582	16 480		%		
30 555	-1 554c	67.4	50.4	0.09	0.5716	0.4274	0.0008	20.8	36 584	16 481		%		
32 560	-1 560c	61.78	41.0	0.05	0.6007	0.3987	0.0005	13.6	37 589	16 483		%		
380	770	95.04	100.0	108.89	0.3127	0.329	0.3582	0.0				%		

rgb* _{e,AB} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D65																
Y _{xy} , abc _{AB} , ABC _{AB} , LabC* _{ab} , h _{ab} data for relative spacing of elementary hue h _{AB} of L _{IN} YAB for CIE 2 degree observer																
Elementary hue circle with 4 intended elementary hue angles: h _{AB} = 17.7, 93.3, 159.1, 270.8 of L _{IN} YAB, and 16 intended hue angles:																
17.7 36.6 55.5 74.4 93.3 109.7 126.2 142.7 159.1 187.0 214.9 242.8 270.8 297.5 324.2 351.0																
L _{IN} YAB data of CIE test colours 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 -1.2 20.9, 11 (G): 20.3 -7.2 2.7, 12 (B): 6.4 0.1 -8.2																
no. _{AB}	x	y	a	b	C _{AB}	A	B	C _{AB}	h _{AB}	L*	a*	b*	C* _{ab}	h _{ab}	rgb* _{e,AB}	Code _{AB}
000	41.1	0.508	0.314	1.615	-0.224	0.697	27.3	8.6	28.7	17.5	70.2	71.9	29.3	77.6	22.2	1.00 0.00 0.00 % R00Y
001	41.7	0.59	0.393	1.499	-0.016	0.691	22.9	17.5	28.8	37.3	70.7	61.3	99.1	116.6	58.2	1.00 0.25 0.00 % R25Y
002	56.0	0.554	0.444	1.249	0.0	0.527	16.7	24.3	29.5	55.5	79.6	39.3	135.2	140.8	73.7	1.00 0.50 0.00 % R50Y
003	69.3	0.516	0.481	1.072	-0.092	0.45	8.5	30.0	31.2	74.2	86.7	18.2	143.3	144.5	82.7	1.00 0.75 0.00 % R75Y
004	83.1	0.476	0.515	0.923	-0.086	0.43	-2.1	35.6	35.7	93.5	93.0	-4.4	142.7	142.8	91.7	1.00 1.00 0.00 % Y00G
005	92.9	0.429	0.533	0.805	-0.027	0.433	-13.4	37.9	40.2	109.5	97.1	-26.2	117.8	120.7	102.5	0.75 1.00 0.00 % Y25G
006	84.5	0.373	0.575	0.649	-0.035	0.5	-25.4	33.8	42.3	126.9	93.6	-56.2	107.3	121.2	117.6	0.50 1.00 0.00 % Y50G
007	71.9	0.276	0.634	0.435	-0.056	0.639	-37.0	27.2	46.0	143.6	87.9	-102.5	88.5	135.4	139.2	0.25 1.00 0.00 % Y75G
008	61.7	0.188	0.532	0.354	-0.21	0.637	-36.8	13.9	39.3	159.2	82.8	-119.3	86.7	124.8	162.8	0.00 1.00 0.00 % G00B
009	59.0	0.166	0.375	0.443	-0.487	0.599	-29.9	-3.0	30.1	185.8	81.3	-94.1	-6.4	94.3	183.9	0.00 1.00 0.50 % G25B
010	58.2	0.163	0.296	0.552	-0.727	0.484	-23.2	-17.0	28.7	216.2	80.8	-69.1	-31.1	75.8	204.2	0.00 1.00 1.00 % G50B
011	38.6	0.134	0.227	0.592	-1.124	0.776	-13.8	-26.6	30.0	242.5	68.5	-53.0	-54.1	75.7	225.6	0.00 0.50 1.00 % G75B
012	18.7	0.127	0.129	0.985	-2.392	1.867	0.6	-34.9	34.9	271.0	59.3	3.4	-84.8	84.9	272.3	0.00 0.00 1.00 % B00R
013	10.6	0.204	0.075	2.111	-3.816	3.812	18.8	-36.1	40.7	297.5	39.0	99.2	-106.7	141.4	314.5	0.50 0.00 1.00 % B25R
014	29.3	0.338	0.152	2.224	-1.338	1.561	37.3	-26.4	45.8	324.6	61.0	108.8	-60.3	124.4	331.0	1.00 0.00 1.00 % B50R
015	40.5	0.423	0.237	1.784	-0.572	0.845	33.8	-5.5	34.2	350.6	69.8	86.4	-14.1	87.5	350.7	1.00 0.00 0.50 % B75R
016	41.1	0.508	0.314	1.615	-0.224	0.697	27.3	8.6	28.7	17.5	70.2	71.9	29.3	77.6	22.2	1.00 0.00 0.00 % R00Y
CIEXYZ data of CIE test colours 9 (R): 20.6 11.2 4.3, 10 (Y): 54.8 59.0 12.0, 11 (G): 12.1 20.3 15.3, 12 (B): 6.2 6.4 27.6																
5 step equidistant grey scale with intended lightness: L* = 0.0, 25.0, 50.0, 75.0, 100.0																
000	0.0	0.0	0.0	0.0	0.0	0.0	1.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00 0.00 0.00 % N000W	
001	4.4	0.312	0.329	0.95	-0.435	0.01	0.0	0.0	0.0	77.1	25.0	0.0	0.0	0.0	0.25 0.25 0.25 % N025W	
002	18.4	0.312	0.329	0.95	-0.435	0.01	0.0	0.0	0.0	57.4	50.0	0.0	0.0	0.0	0.50 0.50 0.50 % N050W	
003	48.2	0.312	0.329	0.95	-0.435	0.01	0.0	0.0	0.0	22.9	75.0	0.0	0.0	0.0	0.75 0.75 0.75 % N075W	
004	100.0	0.312	0.329	0.95	-0.435	0.01	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	1.00 1.00 1.00 % N100W	

Ostwald optimal colours (o) of maximum (m) C _{AB} for D65, Y _{w,10} =100, Y _m =520_770, CIEXYZ data															%
i ₁ , λ ₁	i ₂ , λ ₂	X ₁₀₀	Y ₁₀₀	Z ₁₀₀	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code				%
0	405	31	556	31.74	56.57	106.53	0.1629	0.2903	0.5467	195.0	15 476	37 585	Cm	%	
6	435	31	557	27.99	57.41	83.63	0.1656	0.3396	0.4947	176.6	16 480	44 621		%	
10	450	31	559	22.06	57.53	46.52	0.1749	0.4561	0.3688	137.9	18 491	-1 491c		%	
11	460	32	562	22.29	59.27	37.3	0.1875	0.4986	0.3137	126.9	19 498	-1 498c		%	
12	465	33	565	22.82	60.91	28.98	0.2025	0.5403	0.2571	117.9	21 506	-1 506c		%	
14	470	34	570	24.61	63.07	16.02	0.2373	0.6081	0.1544	105.3	24 522	-1 522c		%	
15	475	35	579	31.53	68.64	11.53	0.2822	0.6144	0.1032	96.3	26 533	-1 533c	Gm	%	
16	480	41	606	54.04	81.94	8.23	0.3746	0.5682	0.0571	75.5	30 550	-1 550c		%	
16	485	-1 484c	77.05	92.3	8.23	0.4339	0.5197	0.0463	57.5	32 560	10 454		%		
18	490	-1 490c	76.87	89.06	4.2	0.4518	0.5234	0.0247	54.3	32 562	11 459	max	%		
19	495	-1 495c	76.85	87.05	2.97	0.4605	0.5216	0.0178	52.4	32 563	12 461		%		
19	500	-1 499c	76.85	87.05	2.97	0.4605	0.5216	0.0178	52.4	32 563	12 461		%		
22	510	-1 510c	76.43	79.1	1.01	0.4882	0.5052	0.0064	44.9	33 567	13 466		%		
23	520	-1 519c	76.0	75.81	0.68	0.4983	0.4971	0.0045	41.9	33 568	13 468	Ym	%		
26	530	-1 530c	73.15	64.17	0.16	0.532	0.4667	0.0012	31.8	34 573	14 472		%		
27	540	-1 539c	71.61	59.9	0.08	0.5441	0.4551	0.0006	28.3	35 576	14 473		%		
28	545	-1 544c	69.75	55.54	0.04	0.5565	0.4431	0.0003	24.7	35 578	14 474		%		
29	550	-1 549c	67.56	51.12	0.01	0.5691	0.4306	0.0001	21.3	36 580	15 475		%		
31	555	-1 555c	62.15	42.37	0.0	0.5946	0.4053	0.0	14.8	37 586	15 476		%		
32	560	10 451	70.49	40.04	58.44	0.4171	0.2369	0.3458	318.7	-1 492c	18 492		%		
	380	770	94.81	100.0	107.33	0.3137	0.3309	0.3552	0.0				%		