

Ostwald optimal colours (o) of maximum (m) C _{AB} for D50, Y _w =100, Y _m =520_770, CIELAB data														%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code		%	
1	405	32 564	80.64	−79.12	−32.66	85.6	0.1753	−0.0939	202.4	17 486 38 592	Cm		%	
7	435	33 565	80.84	−92.99	−16.32	94.41	0.1682	−0.0862	189.9	18 490 46 634			%	
10	450	33 566	81.12	−108.35	7.14	108.58	0.1604	−0.0752	176.2	19 497 −1 497c			%	
12	460	33 567	81.46	−116.97	28.05	120.29	0.1561	−0.0654	166.5	21 506 −1 506c			%	
13	465	33 568	81.81	−119.26	39.57	125.66	0.1552	−0.0601	161.6	22 511 −1 511c			%	
14	470	34 570	82.4	−119.23	51.38	129.83	0.1555	−0.0547	156.6	23 519 −1 519c			%	
15	475	34 573	83.39	−115.8	63.56	132.1	0.1579	−0.0494	151.2	25 527 −1 527c	Gm		%	
15	480	35 578	85.46	−107.76	67.11	126.95	0.1631	−0.0484	148.0	26 531 −1 531c			%	
17	485	37 587	88.09	−90.84	90.18	128.01	0.1726	−0.039	135.2	28 544 −1 544c			%	
18	490	44 620	95.17	−39.39	110.34	117.16	0.1986	−0.0333	109.6	32 561 −1 561c	max		%	
19	495	−1 495c	97.49	−13.34	121.9	122.63	0.2105	−0.0295	96.2	33 568 12 463			%	
20	500	−1 500c	96.81	−10.45	127.99	128.42	0.2118	−0.0268	94.6	33 569 13 466			%	
22	510	−1 510c	94.88	−2.34	137.84	137.86	0.2153	−0.0218	90.9	34 571 14 471			%	
23	520	−1 519c	93.58	2.85	141.13	141.16	0.2177	−0.0198	88.8	34 572 14 473	Ym		%	
25	530	−1 529c	90.23	15.24	146.8	147.59	0.2236	−0.0162	84.0	35 575 15 477			%	
27	540	−1 539c	86.01	29.18	144.12	147.04	0.2308	−0.0132	78.5	35 579 16 480			%	
28	545	−1 544c	83.62	36.35	141.27	145.87	0.2347	−0.012	75.5	36 581 16 481			%	
29	550	−1 549c	81.05	43.6	137.66	144.4	0.239	−0.011	72.4	36 583 16 483			%	
30	555	−1 554c	78.3	50.75	133.47	142.8	0.2434	−0.0102	69.1	37 585 16 484			%	
32	560	−1 560c	72.41	64.12	123.93	139.53	0.2528	−0.0092	62.6	38 590 17 486			%	
380	770	100.0	0.0	0.0	0.0	0.0	0.2164	−0.0785	0.0				%	
Ostwald optimal colours (o) of maximum (m) C _{AB} for D50, Y _w =100, Y _m =770_520, CIELAB complementary														%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code		%	
32	564	1 405	71.0	67.41	105.72	125.38	0.2553	−0.0231	57.4	38 592 17 486	Rm		%	
33	565	7 435	70.74	75.66	26.96	80.32	0.2602	−0.0643	19.6	46 634 18 490			%	
33	566	10 450	70.4	84.09	−8.18	84.49	0.2653	−0.0828	354.4	−1 497c 19 497			%	
33	567	12 460	69.97	89.18	−25.67	92.8	0.2685	−0.0921	343.9	−1 506c 21 506			%	
33	568	13 465	69.5	91.5	−32.76	97.19	0.2702	−0.096	340.2	−1 511c 22 511			%	
34	570	14 470	68.72	93.74	−39.06	101.55	0.272	−0.0995	337.3	−1 519c 23 519			%	
34	573	15 475	67.36	96.12	−45.25	106.24	0.2743	−0.1032	334.7	−1 527c 25 527	Mm		%	
35	578	15 480	64.23	100.99	−50.62	112.97	0.2796	−0.1073	333.3	−1 531c 26 531			%	
37	587	17 485	59.67	103.27	−63.42	121.19	0.285	−0.1167	328.4	−1 544c 28 544			%	
44	620	18 490	41.19	95.32	−96.8	135.85	0.3001	−0.1557	314.5	−1 561c 32 561	min		%	
−1 495c	19 495	30.29	58.93	−116.79	130.82	0.2804	−0.1936	296.7	12 463 33 568				%	
−1 500c	20 500	34.03	42.92	−111.26	119.25	0.2595	−0.1799	291.0	13 466 33 569				%	
−1 510c	22 510	42.26	8.18	−98.28	98.62	0.2235	−0.1554	274.7	14 471 34 571				%	
−1 519c	23 520	46.59	−9.12	−91.17	91.63	0.2091	−0.1449	264.2	14 473 34 572	Bm			%	
−1 529c	25 530	55.28	−39.96	−76.64	86.43	0.1882	−0.1275	242.4	15 477 35 575				%	
−1 539c	27 540	63.34	−62.09	−62.98	88.44	0.1771	−0.1147	225.4	16 480 35 579				%	
−1 544c	28 545	67.02	−69.55	−56.7	89.74	0.1743	−0.1096	219.1	16 481 36 581				%	
−1 549c	29 550	70.49	−74.83	−50.77	90.42	0.1729	−0.1053	214.1	16 483 36 583				%	
−1 554c	30 555	73.73	−78.04	−45.21	90.19	0.1727	−0.1015	210.0	16 484 37 585				%	
−1 560c	32 560	79.46	−78.96	−35.36	86.52	0.1749	−0.0954	204.1	17 486 38 590				%	
380	770	100.0	0.0	0.0	0.0	0.0	0.2164	−0.0785	0.0				%	

Ostwald optimal colours (o) of maximum (m) C _{AB} for D50, Y _w =100, Y _m =520_770, CIELAB data															%
i ₁ , λ ₁	i ₂ , λ ₂	L* ₁₀₀	a* ₁₀₀	b* ₁₀₀	C* _{ab}	a'	b'	h _{ab}	i _d , λ _d	i _c , λ _c	Code			%	
1	405	32	564	80.64	−79.12	−32.66	85.6	0.1753	−0.0939	202.4	17 486 38 592	Cm		%	
7	435	33	565	80.84	−92.99	−16.32	94.41	0.1682	−0.0862	189.9	18 490 46 634			%	
10	450	33	566	81.12	−108.35	7.14	108.58	0.1604	−0.0752	176.2	19 497 −1 497c			%	
12	460	33	567	81.46	−116.97	28.05	120.29	0.1561	−0.0654	166.5	21 506 −1 506c			%	
13	465	33	568	81.81	−119.26	39.57	125.66	0.1552	−0.0601	161.6	22 511 −1 511c			%	
14	470	34	570	82.4	−119.23	51.38	129.83	0.1555	−0.0547	156.6	23 519 −1 519c			%	
15	475	34	573	83.39	−115.8	63.56	132.1	0.1579	−0.0494	151.2	25 527 −1 527c	Gm		%	
15	480	35	578	85.46	−107.76	67.11	126.95	0.1631	−0.0484	148.0	26 531 −1 531c			%	
17	485	37	587	88.09	−90.84	90.18	128.01	0.1726	−0.039	135.2	28 544 −1 544c			%	
18	490	44	620	95.17	−39.39	110.34	117.16	0.1986	−0.0333	109.6	32 561 −1 561c	max		%	
19	495	−1 495c	97.49	−13.34	121.9	122.63	0.2105	−0.0295	96.2	33 568 12 463			%		
20	500	−1 500c	96.81	−10.45	127.99	128.42	0.2118	−0.0268	94.6	33 569 13 466			%		
22	510	−1 510c	94.88	−2.34	137.84	137.86	0.2153	−0.0218	90.9	34 571 14 471			%		
23	520	−1 519c	93.58	2.85	141.13	141.16	0.2177	−0.0198	88.8	34 572 14 473	Ym		%		
25	530	−1 529c	90.23	15.24	146.8	147.59	0.2236	−0.0162	84.0	35 575 15 477			%		
27	540	−1 539c	86.01	29.18	144.12	147.04	0.2308	−0.0132	78.5	35 579 16 480			%		
28	545	−1 544c	83.62	36.35	141.27	145.87	0.2347	−0.012	75.5	36 581 16 481			%		
29	550	−1 549c	81.05	43.6	137.66	144.4	0.239	−0.011	72.4	36 583 16 483			%		
30	555	−1 554c	78.3	50.75	133.47	142.8	0.2434	−0.0102	69.1	37 585 16 484			%		
32	560	−1 560c	72.41	64.12	123.93	139.53	0.2528	−0.0092	62.6	38 590 17 486			%		
380	770	100.0	0.0	0.0	0.0	0.0	0.2164	−0.0785	0.0				%		

rgb* _{e,ab} and CIE data of a elementary hue circle according to CIE R1-47 for Ostwald colours for CIE illuminant D50																	
Xy _y , c _{AB} , ABC _{AB} , LabC* _{ab} h _{ab} data for relative spacing of elementary hue h _{ab} of CIELAB for CIE 2 degree observer																	
Elementary hue circle with 4 intended elementary hue angles: h _{ab} = 27.1, 88.5, 164.3, 263.9 of CIELAB, and 16 intended hue angles:																	
27.1	42.5	57.8	73.2	88.5	107.5	126.4	145.3	164.3	189.2	214.1	239.0	263.9	294.7	325.5	356.3		
CIELAB data of CIE test colours 9 (R): 41.8 61.9 31.7, 10 (Y): 81.9 1.7 71.5, 11 (G): 51.6 −41.1 11.5, 12 (B): 29.2 −5.2 −49.3																	
no. _{ab}	Y	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	41.8	0.559	0.338	1.655	−0.121	0.722	28.9	8.7	30.2	16.8	70.7	73.8	42.5	85.2	29.9	1.00 0.00 0.00	% R00Y #
001	41.9	0.595	0.368	1.616	−0.039	0.714	27.3	12.1	29.9	24.0	70.8	79.3	76.0	103.6	47.2	1.00 0.25 0.00	% R25Y #
002	42.2	0.608	0.384	1.58	−0.006	0.695	26.0	13.6	29.3	27.6	71.0	67.1	108.6	127.7	58.2	1.00 0.50 0.00	% R50Y #
003	59.8	0.56	0.438	1.28	0.0	0.456	18.8	19.6	27.2	46.1	81.7	41.7	138.6	144.8	73.2	1.00 0.75 0.00	% R75Y #
004	83.9	0.493	0.5	0.985	−0.005	0.325	1.7	27.2	27.3	86.3	93.4	3.3	141.4	141.5	88.6	1.00 1.00 0.00	% Y00G #
005	89.5	0.422	0.544	0.776	−0.023	0.359	−16.8	27.4	32.1	121.5	95.8	−33.6	112.6	117.5	106.6	0.75 1.00 0.00	% Y25G #
006	77.3	0.343	0.604	0.568	−0.033	0.494	−30.6	22.9	38.2	143.1	90.4	−74.1	97.7	122.6	127.1	0.50 1.00 0.00	% Y50G #
007	67.6	0.264	0.626	0.421	−0.069	0.602	−36.7	17.6	40.7	154.3	85.8	−105.8	71.0	127.4	146.1	0.25 1.00 0.00	% Y75G #
008	59.5	0.2	0.562	0.357	−0.168	0.628	−36.1	9.6	37.4	165.0	81.6	−118.5	33.8	123.2	164.0	0.00 1.00 0.00	% G00B #
009	58.2	0.178	0.396	0.449	−0.428	0.524	−29.9	−5.7	30.5	190.8	80.8	−93.8	−15.1	95.0	189.1	0.00 1.00 0.50	% G25B #
010	41.4	0.141	0.287	0.492	−0.794	0.662	−19.5	−19.2	27.4	224.5	70.5	−74.8	−50.7	90.4	214.1	0.00 1.00 1.00	% G50B #
011	25.0	0.123	0.204	0.605	−1.312	1.045	−8.9	−24.5	26.1	249.9	57.0	−45.2	−73.6	86.4	238.3	0.00 0.50 1.00	% G75B #
012	15.8	0.123	0.142	0.865	−2.06	1.733	−1.5	−27.3	27.3	266.7	46.7	−9.5	−90.9	91.4	263.9	0.00 0.00 1.00	% B00R #
013	6.4	0.128	0.065	1.947	−4.899	4.674	6.3	−29.3	30.0	282.1	30.4	52.9	−116.8	128.2	294.3	0.50 0.50 1.00	% B25R #
014	24.1	0.354	0.156	2.273	−1.253	1.601	31.6	−22.3	38.7	324.7	56.2	103.0	−69.8	124.4	325.8	1.00 0.00 1.00	% B50R #
015	41.3	0.477	0.269	1.768	−0.374	0.806	33.2	−1.8	33.3	356.8	70.4	83.5	−6.4	83.7	355.5	1.00 0.00 0.50	% B75R #
016	41.8	0.559	0.338	1.655	−0.121	0.722	28.9	8.7	30.2	16.8	70.7	73.8	42.5	85.2	29.9	1.00 0.00 0.00	% R00Y #
CIEXYZ data of CIE test colours 9 (R): 23.3 12.4 3.2, 10 (Y): 58.8 60.2 9.5, 11 (G): 12.0 19.8 11.9, 12 (B): 5.2 5.9 21.2																	
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	1.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00 0.00 0.00	% N000W #
001	4.4	0.345	0.358	0.964	−0.329	0.01	0.0	0.0	0.0	76.4	25.0	0.0	0.0	0.0	0.0	0.25 0.25 0.25	% N025W #
002	18.4	0.345	0.358	0.964	−0.329	0.01	0.0	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	0.50 0.50 0.50	% N050W #
003	48.2	0.345	0.358	0.964	−0.329	0.01	0.0	0.0	0.0	17.2	75.0	0.0	0.0	0.0	0.0	0.75 0.75 0.75	% N075W #
004	100.0	0.345	0.358	0.964	−0.329	0.01	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	1.00 1.00 1.00	% N100W #