see similar files: http://farbe.li.tu-berlin.de/DEF5/DEF5.HTM
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20221101-DEF5/DEF5L0N1.TXT /.PS
application for evaluation and measurement of display or print output

TUB material: code=lha4a

Ostwald optimal colours (o), maximum (m) C_{AB} for D50, Y_N=3,6, Y_W=90, Y_m=520_770

i_1, λ_1	i_2, λ_2	Y	A_1	B_1	C_{A1B1}	a_1	b_1	$h_{xy,1}$	i_d, λ_d	i_c, λ_c	Code
1	405 32 564	48.45	−52.52	−26.15	58.67	0.2236	−0.5457	206.4	17 486	38 592	Cm
7	435 33 565	48.25	−54.77	−12.23	56.12	0.2032	−0.4313	192.5	18 490	46 631	
10	450 33 566	48.75	−56.74	4.51	56.92	0.1916	−0.2928	175.4	19 497	−1 497c	
12	460 33 567	49.37	−57.34	16.06	59.55	0.1926	−0.1997	164.3	21 506	−1 506c	
13	465 33 568	50.0	−57.3	21.33	61.15	0.1988	−0.1592	159.5	22 512	−1 512c	
14	470 34 570	50.5	−56.89	25.72	62.43	0.2066	−0.1261	155.6	23 519	−1 519c	
15	475 34 573	52.24	−55.8	30.37	63.53	0.2299	−0.0973	151.4	25 527	−1 527c	Gm
15	480 35 578	55.34	−54.77	32.93	63.91	0.2613	−0.0919	148.9	26 532	−1 532c	
17	485 37 587	59.41	−48.2	40.63	63.04	0.3327	−0.0563	139.8	28 544	−1 544c	
18	490 44 620	71.6	−19.22	52.07	55.51	0.5498	−0.0389	110.2	32 561	−1 561c	
19	495 −1 495c	76.06	3.2	56.84	56.93	0.674	−0.0309	86.7	33 568	12 463	max
20	500 −1 500c	74.76	5.9	56.63	56.94	0.6888	−0.0268	84.0	33 569	13 466	
22	510 −1 510c	71.15	12.94	54.8	56.31	0.73	−0.0218	76.7	34 571	14 471	
23	520 −1 519c	68.78	17.2	53.19	55.9	0.7572	−0.0205	72.0	34 572	14 473	Ym
25	530 −1 529c	62.96	26.65	48.81	55.62	0.8265	−0.0197	61.3	35 575	15 477	
27	540 −1 539c	56.11	36.05	43.4	56.42	0.9142	−0.0205	50.2	35 579	16 480	
28	545 −1 544c	52.49	40.31	40.47	57.12	0.9643	−0.0214	45.1	36 581	16 481	
29	550 −1 549c	48.77	44.13	37.44	57.88	1.0192	−0.0227	40.3	36 583	16 483	
30	555 −1 554c	45.01	47.39	34.37	58.54	1.0783	−0.0244	35.9	37 585	16 484	
32	560 −1 560c	37.66	51.7	28.34	58.96	1.2062	−0.0288	28.7	38 590	17 486	
32	564 1 405	41.54	52.52	26.15	58.67	1.1629	−0.078	26.4	38 592	17 486	Rm
33	565 7 435	41.74	54.76	12.23	56.11	1.182	−0.2126	12.5	46 631	18 490	
33	566 10 450	41.24	56.73	−4.51	56.91	1.2074	−0.3736	355.4	−1 497c	19 497	
33	567 12 460	40.62	57.33	−16.06	59.54	1.2217	−0.488	344.3	−1 506c	21 506	
33	568 13 465	39.99	57.29	−21.33	61.13	1.2302	−0.5432	339.5	−1 512c	22 512	
34	570 14 470	39.49	56.88	−25.71	62.42	1.2333	−0.5903	335.6	−1 519c	23 519	
34	573 15 475	37.75	55.79	−30.36	63.52	1.2483	−0.6516	331.4	−1 527c	25 527	Mm
35	578 15 480	34.65	54.75	−32.92	63.89	1.2893	−0.7099	328.9	−1 532c	26 532	
37	587 17 485	30.58	48.18	−40.61	63.02	1.2874	−0.861	319.8	−1 544c	28 544	
44	620 18 490	18.39	19.21	−52.05	55.48	1.0751	−1.4618	290.2	−1 561c	32 561	
−1 495c	19 495	13.93	−3.2	−56.81	56.9	0.5652	−1.9609	266.7	12 463	33 568	min
−1 500c	20 500	15.23	−5.89	−56.61	56.91	0.5023	−1.8165	264.0	13 466	33 569	
−1 510c	22 510	18.84	−12.94	−54.78	56.28	0.3825	−1.4926	256.7	14 471	34 571	
−1 519c	23 520	21.21	−17.2	−53.17	55.88	0.3328	−1.3327	252.0	14 473	34 572	Bm
−1 529c	25 530	27.03	−26.65	−48.8	55.6	0.2629	−1.0518	241.3	15 477	35 575	
−1 539c	27 540	33.88	−36.05	−43.39	56.41	0.2316	−0.8422	230.2	16 480	35 579	
−1 544c	28 545	37.5	−40.3	−40.47	57.12	0.2273	−0.7615	225.1	16 481	36 581	
−1 549c	29 550	41.22	−44.13	−37.44	57.87	0.229	−0.6931	220.3	16 483	36 583	
−1 554c	30 555	44.98	−47.38	−34.37	58.54	0.2358	−0.6355	215.9	16 484	37 585	
−1 560c	32 560	52.33	−51.69	−28.34	58.96	0.262	−0.5465	208.7	17 486	38 590	
W0	380 770	90.0	0.0	0.0	0.0	0.6572	−0.3298	0.0		B_c=1,000	
N0	380 770	3.6	0.0	0.0	0.0	0.6572	−0.3298	0.0		x_c=0,110	

DEF50−7N

Ostwald optimal colours (o), maximum (m) C_{AB} for D50, Y_N=3,6, Y_W=90, Y_m=520_770

i_1, λ_1	i_2, λ_2	Y	A_2	B_{c2}	C_{A2B2}	a_2	b_2	$h_{xy,2}$	i_d, λ_d	i_c, λ_c	Code
1	405 32 564	48.45	−52.52	−26.15	58.67	0.2236	−0.5457	206.4	17 486	38 592	Cm
7	435 33 565	48.25	−54.77	−12.23	56.12	0.2032	−0.4313	192.5	18 490	46 631	
10	450 33 566	48.75	−56.74	4.51	56.92	0.1916	−0.2928	175.4	19 497	−1 497c	
12	460 33 567	49.37	−57.34	16.06	59.55	0.1926	−0.1997	164.3	21 506	−1 506c	
13	465 33 568	50.0	−57.3	21.33	61.15	0.1988	−0.1592	159.5	22 512	−1 512c	
14	470 34 570	50.5	−56.89	25.72	62.43	0.2066	−0.1261	155.6	23 519	−1 519c	
15	475 34 573	52.24	−55.8	30.37	63.53	0.2299	−0.0973	151.4	25 527	−1 527c	Gm
15	480 35 578	55.34	−54.77	32.93	63.91	0.2613	−0.0919	148.9	26 532	−1 532c	
17	485 37 587	59.41	−48.2	40.63	63.04	0.3327	−0.0563	139.8	28 544	−1 544c	
18	490 44 620	71.6	−19.22	52.07	55.51	0.5498	−0.0389	110.2	32 561	−1 561c	
19	495 −1 495c	76.06	3.2	56.84	56.93	0.674	−0.0309	86.7	33 568	12 463	max
20	500 −1 500c	74.76	5.9	56.63	56.94	0.6888	−0.0268	84.0	33 569	13 466	
22	510 −1 510c	71.15	12.94	54.8	56.31	0.73	−0.0218	76.7	34 571	14 471	
23	520 −1 519c	68.78	17.2	53.19	55.9	0.7572	−0.0205	72.0	34 572	14 473	Ym
25	530 −1 529c	62.96	26.65	48.81	55.62	0.8265	−0.0197	61.3	35 575	15 477	
27	540 −1 539c	56.11	36.05	43.4	56.42	0.9142	−0.0205	50.2	35 579	16 480	
28	545 −1 544c	52.49	40.31	40.47	57.12	0.9643	−0.0214	45.1	36 581	16 481	
29	550 −1 549c	48.77	44.13	37.44	57.88	1.0192	−0.0227	40.3	36 583	16 483	
30	555 −1 554c	45.01	47.39	34.37	58.54	1.0783	−0.0244	35.9	37 585	16 484	
32	560 −1 560c	37.66	51.7	28.34	58.96	1.2062	−0.0288	28.7	38 590	17 486	
32	564 1 405	41.54	52.52	26.15	58.67	1.1629	−0.078	26.4	38 592	17 486	Rm
33	565 7 435	41.74	54.76	12.23	56.11	1.182	−0.2126	12.5	46 631	18 490	
33	566 10 450	41.24	56.73	−4.51	56.91	1.2074	−0.3736	355.4	−1 497c	19 497	
33	567 12 460	40.62	57.33	−16.06	59.54	1.2217	−0.488	344.3	−1 506c	21 506	
33	568 13 465	39.99	57.29	−21.33	61.13	1.2302	−0.5432	339.5	−1 512c	22 512	
34	570 14 470	39.49	56.88	−25.71	62.42	1.2333	−0.5903	335.6	−1 519c	23 519	
34	573 15 475	37.75	55.79	−30.36	63.52	1.2483	−0.6516	331.4	−1 527c	25 527	Mm
35	578 15 480	34.65	54.75	−32.92	63.89	1.2893	−0.7099	328.9	−1 532c	26 532	
37	587 17 485	30.58	48.18	−40.61	63.02	1.2874	−0.861	319.8	−1 544c	28 544	
44	620 18 490	18.39	19.21	−52.05	55.48	1.0751	−1.4618	290.2	−1 561c	32 561	
−1 495c	19 495	13.93	−3.2	−56.81	56.9	0.5652	−1.9609	266.7	12 463	33 568	min
−1 500c	20 500	15.23	−5.89	−56.61	56.91	0.5023	−1.8165	264.0	13 466	33 569	
−1 510c	22 510	18.84	−12.94	−54.78	56.28	0.3825	−1.4926	256.7	14 471	34 571	
−1 519c	23 520	21.21	−17.2	−53.17	55.88	0.3328	−1.3327	252.0	14 473	34 572	Bm
−1 529c	25 530	27.03	−26.65	−48.8	55.6	0.2629	−1.0518	241.3	15 477	35 575	
−1 539c	27 540	33.88	−36.05	−43.39	56.41	0.2316	−0.8422	230.2	16 480	35 579	
−1 544c	28 545	37.5	−40.3	−40.47	57.12	0.2273	−0.7615	225.1	16 481	36 581	
−1 549c	29 550	41.22	−44.13	−37.44	57.87	0.229	−0.6931	220.3	16 483	36 583	
−1 554c	30 555	44.98	−47.38	−34.37	58.54	0.2358	−0.6355	215.9	16 484	37 585	
−1 560c	32 560	52.33	−51.69	−28.34	58.96	0.262	−0.5465	208.7	17 486	38 590	
W0	380 770	90.0	0.0	0.0	0.0	0.6572	−0.3298	0.0		B_c=1,000	
N0	380 770	3.6	0.0	0.0	0.0	0.6572	−0.3298	0.0		x_c=0,110	

DEF51−7N

TUB-test chart DEF5; *Ostwald* optimal colours, Y_N=3,6, Y_W=90, illuminant D50, CIE-02-degree
Table data: $YA_1B_1C_{AB,1}h_{AB,1}$ and $YA_2B_2C_{AB,2}h_{AB,2}$ with different wavelength ranges