

XYZ_w = 95.04, 100.0, 108.89

$$A_2 = 2.5(a_2 - a_{2,n})Y$$

$$B_2 = 2.5(b_2 - b_{2,n})Y$$

$$a_2 = a_{20} [(x - x_c) / y]$$

$$b_2 = b_{20} B_c [z / y]$$

$$a_{20} = 1, b_{20} = -0.4$$

$$x_c = 0.110, B_c = 0.800$$

$$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$$

6 Ostwald-Farben (o), C_{AB,2} = const

Farbenraum (C_{AB,2}, L*_{TAR})

$$L^*_{TAR} = 50 + 50[e^x + e^{-x}] / [e^x + e^y]$$

$$Y_c = Y / 18, x = \log[Y_c]$$

Lichtart D65, Y_w = 90.0, Y_n = 3.6

Name Bereich X Y Z x x_N y_N λ_a λ_b λ_c a₂ b₂ c₂ A₂ B₂ C_{AB,2} L*_{TAR} L*_{CIE} L*_{CF} L*_{TVU} L*_{TAR}

R	507.775	49.44	32.71	3.56	0.576	0.381	596	489	1.223	-0.034	0.683	49.6	25.6	55.8	27	1.81	13.9	14.5	14.8	12.6		
Y	493.775	63.04	76.53	8.77	0.424	0.515	570	463	0.61	-0.036	0.311	-1.0	59.6	59.6	9.1	4.25	40.1	41.0	35.9	27.8		
G	493.567	16.67	40.75	8.74	0.24	0.649	535	353	0.184	-0.059	0.519	-50.7	33.6	61.0	146	26.1	24.2	24.9	23.8	19.7		
C	380.567	30.61	51.52	88.16	0.179	0.302	489	596	0.23	-0.547	0.435	-49.6	-25.6	55.8	20.7	2.86	26.9	27.7	26.1	21.3		
B	380.493	17.01	7.7	82.95	0.158	0.071	463	570	0.671	-3.444	3.096	1.0	0.0	0.0	-59.6	59.6	27.1	0.42	-16.6	-16.2	-21.0	-17.6
M	567.493	63.38	37.18	92.98	0.345	0.202	535	535	1.161	-0.714	0.656	50.7	-33.9	61.0	326	20.6	17.4	18.0	18.0	15.2		
W	380.775	85.53	90.0	80.0	0.312	0.329	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.99	45.9	46.9	40.0	30.1			
N	380.775	3.42	3.6	3.92	0.312	0.329	3.6	0.616	-0.348	0.01	0.0	0.0	0.0	0.0	180	0.19	-27.6	-27.4	-40.0	-30.1		
U	380.775	17.1	18.0	19.6	0.312	0.329	18.0	0.616	-0.348	0.01	0.0	0.0	0.0	0.0	184	1.0	-0.4	0.0	0.0	0.0		

fig40-5a

-74 Parameter:

$$L^*_{TAR} = L^*_{TAR} - 50$$



XYZ_w = 96.42, 100.0, 82.49

$$A_2 = 2.5(a_2 - a_{2,n})Y$$

$$B_2 = 2.5(b_2 - b_{2,n})Y$$

$$a_2 = a_{20} [(x - x_c) / y]$$

$$b_2 = b_{20} B_c [z / y]$$

$$a_{20} = 1, b_{20} = -0.4$$

$$x_c = 0.110, B_c = 1.000$$

$$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$$

6 Ostwald-Farben (o), C_{AB,2} = const

Farbenraum (C_{AB,2}, L*_{TAR})

$$L^*_{TAR} = 50 + 50[e^x + e^{-x}] / [e^x + e^y]$$

$$Y_c = Y / 18, x = \log[Y_c]$$

Lichtart D50, Y_w = 90.0, Y_n = 3.6

Name Bereich X Y Z x x_N y_N λ_a λ_b λ_c a₂ b₂ c₂ A₂ B₂ C_{AB,2} L*_{TAR} L*_{CIE} L*_{CF} L*_{TVU} L*_{TAR}

R	570.775	53.58	34.33	2.71	0.591	0.378	898	491	1.27	-0.031	0.681	52.5	25.6	58.5	25	1.9	15.2	15.8	16.0	13.6
Y	496.775	67.04	76.35	5.98	0.451	0.508	573	468	0.67	-0.031	0.299	25	57.0	57.0	87	4.24	40.0	40.9	35.9	27.8
G	496.570	17.28	45.26	5.95	0.252	0.66	538	538	0.215	-0.052	0.521	-50.0	31.0	57.0	147	25.1	23.0	23.8	22.9	19.0
C	380.570	27.64	49.9	66.78	0.191	0.345	491	598	0.235	-0.535	0.469	-52.5	-25.6	58.5	205	2.77	26.0	26.7	25.3	20.7
B	380.496	13.48	7.88	63.5	0.158	0.092	468	573	0.526	-3.223	2.896	-2.5	-57.0	57.0	267	0.43	-16.2	-15.9	-20.5	-17.2
M	570.496	63.94	38.97	63.54	0.384	0.234	538	538	1.17	-0.652	0.606	50.0	-31.3	59.0	327	2.16	18.7	19.4	19.2	16.1
W	380.775	86.78	90.0	74.24	0.345	0.358	90.0	0.657	-0.329	0.01	0.0	0.0	0.0	4.99	45.9	46.9	40.0	30.1		
N	380.775	3.47	3.6	2.96	0.345	0.358	3.6	0.657	-0.329	0.01	0.0	0.0	0.0	181	0.19	-27.6	-27.4	-40.0	-30.1	
U	380.775	17.35	18.0	14.84	0.345	0.358	18.0	0.657	-0.329	0.01	0.0	0.0	0.0	186	1.0	-0.4	0.0	0.0	0.0	

fig40-6a

XYZ_w = 100.93, 100.0, 64.68

$$A_2 = 2.5(a_2 - a_{2,n})Y$$

$$B_2 = 2.5(b_2 - b_{2,n})Y$$

$$a_2 = a_{20} [(x - x_c) / y]$$

$$b_2 = b_{20} B_c [z / y]$$

$$a_{20} = 1, b_{20} = -0.4$$

$$x_c = 0.110, B_c = 1.300$$

$$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$$

6 Ostwald-Farben (o), C_{AB,2} = const

Farbenraum (C_{AB,2}, L*_{TAR})

$$L^*_{TAR} = 50 + 50[e^x + e^{-x}] / [e^x + e^y]$$

$$Y_c = Y / 18, x = \log[Y_c]$$

Lichtart P40, Y_w = 90.0, Y_n = 3.6

Name Bereich X Y Z x x_N y_N λ_a λ_b λ_c a₂ b₂ c₂ A₂ B₂ C_{AB,2} L*_{TAR} L*_{CIE} L*_{CF} L*_{TVU} L*_{TAR}

R	573.775	57.85	35.23	2.13	0.607	0.37	600	493	1.344	-0.031	0.697	55.2	26.8	61.4	25	1.95	15.0	15.5	16.6	14.1
Y	498.775	73.71	77.38	5.25	0.471	0.494	576	468	0.73	-0.035	0.301	25.5	58.2	58.3	87	4.29	40.0	41.4	36.4	28.0
G	498.573	17.12	45.39	5.21	0.274	0.65	540	540	0.252	-0.059	0.54	-52.7	31.3	61.3	149	25.2	23.1	23.8	22.9	19.0
C	380.573	27.49	49.0	52.36	0.211	0.381	493	600	0.265	-0.555	0.501	-55.2	-26.8	61.4	205	2.72	25.4	26.2	24.8	20.4
B	380.498	11.31	6.85	49.24	0.167	0.101	468	576	0.568	-3.733	3.4	-2.5	-58.2	58.3	267	0.38	-18.1	-18.1	-23.9	-19.8
M	573.498	65.89	38.84	49.27	0.427	0.252	540	540	1.26	-0.659	0.631	52.7	-31.3	61.3	329	2.15	18.6	19.3	19.1	16.1
W	380.775	90.83	90.0	58.22	0.379	0.376	90.0	0.717	-0.336	0.01	0.0	0.0	0.0	4.99	45.9	46.9	40.0	30.1		
N	380.775	3.63	3.6	2.32	0.379	0.376	3.6	0.717	-0.336	0.01	0.0	0.0	0.0	180	0.19	-27.6	-27.4	-40.0	-30.1	
U	380.775	18.16	18.0	11.64	0.379	0.376	18.0	0.717	-0.336	0.01	0.0	0.0	0.0	169	1.0	-0.4	0.0	0.0	0.0	

fig40-7a

-74 Parameter:

$$L^*_{TAR} = L^*_{TAR} - 50$$



XYZ_w = 109.84, 99.99, 35.58

$$A_2 = 2.5(a_2 - a_{2,n})Y$$

$$B_2 = 2.5(b_2 - b_{2,n})Y$$

$$a_2 = a_{20} [(x - x_c) / y]$$

$$b_2 = b_{20} B_c [z / y]$$

$$a_{20} = 1, b_{20} = -0.4$$

$$x_c = 0.110, B_c = 2.500$$

$$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$$

6 Ostwald-Farben (o), C_{AB,2} = const

Farbenraum (C_{AB,2}, L*_{TAR})

$$L^*_{TAR} = 50 + 50[e^x + e^{-x}] / [e^x + e^y]$$

$$Y_c = Y / 18, x = \log[Y_c]$$

Lichtart A00, Y_w = 90.0, Y_n = 3.6

Name Bereich X Y Z x x_N y_N λ_a λ_b λ_c a₂ b₂ c₂ A₂ B₂ C_{AB,2} L*_{TAR} L*_{CIE} L*_{CF} L*_{TVU} L*_{TAR}

R	579.775	65.67	36.68	1.18	0.634	0.354	605	499	1.479	-0.032	0.727	59.7	29.6	66.6	26	2.03	17.0	17.7	17.6	14.9
Y	504.775	84.79	77.87	2.96	0.511	0.47	581	474	0.854	-0.038	0.318	5.1	61.8	62.0	85	4.32	40.0	41.4	36.4	28.0
G	504.579	22.67	44.42	2.93	0.323	0.634	547	547	0.327	-0.066	0.57	-54.5	32.1	63.3	149	24.6	22.5	23.2	22.4	18.6
C	380.579	26.86	47.55	28.79	0.26	0.46	499	605	0.326	-0.605	0.561	-59.7	-29.6	66.6	206	2.64	24.4	25.2	24.1	19.9
B	380.504	7.14	6.36	27.0	0.188	0.154	474	581	0.505	-4.241	3.898	-5.1	-61.8	62.0	265	0.35	-19.6	-19.3	-25.8	-21.1
M	579.504	69.85	39.81	27.03	0.51	0.291	547	547	1.366	-0.679	0.636	54.5	-32.1	63.3	329	2.21	19.3	20.0	19.7	16.5
W	380.775	98.86	89.99	32.02	0.447	0.407	90.0	0.828	-0.355	0.01	0.0	0.0	0.0	4.99	45.9	46.9	40.0	30.1		
N	380.775	3.95	3.6	1.28	0.447	0.407	3.6	0.828	-0.355	0.01	0.0	0.0	0.0	181	0.19	-27.6	-27.4	-40.0	-30.1	
U	380.775	19.77	17.99	6.4	0.447	0.407	18.0	0.828	-0.355	0.01	0.0	0.0	0.0	180	1.0	-0.4	0.0	0.0	0.0	

fig40-8a