

$XYZ_W=95.04, 100.0, 108.89$

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

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

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

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

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

$x_c = 0.110, B_c = 0.800$

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

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

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

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

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

Lichtart D65, $Y_W = 72.0, Y_N = 4.5$

Name Bereich X Y W z z_N Y_N λ_a λ_c a₂ b₂ c₂ A₂ B₂ C_{AB,2} L_{TAR} Y_c L_{TAR} L_{TAR} L_{TAR} L_{TAR} L_{TAR}

R	567.775	40.07	27.07	4.43	0.559	0.378	896	489	1.189	-0.052	0.645	38.7	20.0	43.6	27	1.5	9.0	9.6	10.1	8.7
Y	493.775	50.69	61.31	8.51	0.42	0.508	570	363	0.61	-0.004	0.304	-0.8	46.6	46.6	9.1	3.4	32.5	33.3	30.4	24.3
G	493.567	14.47	38.28	4.48	0.236	0.625	535	460	202	-0.007	0.498	-39.6	26.5	47.7	146	2.12	18.2	18.9	18.7	15.8
C	380.573	25.36	41.77	70.53	0.184	0.303	489	596	0.244	-0.54	0.418	-38.7	-20.0	43.6	207	2.32	20.7	21.4	20.9	17.5
B	380.493	14.73	7.53	65.45	0.166	0.084	463	570	0.066	-2.82	2.472	0.8	-46.6	46.6	271	0.41	-16.9	-16.6	-21.6	-18.0
M	567.493	50.96	30.56	66.48	0.344	0.206	535	535	1.134	-0.696	0.624	39.6	-26.5	47.7	326	1.69	12.1	12.7	13.1	11.3
W	380.775	68.43	72.0	72.0	0.616	-0.348	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.9	38.8	34.4	26.9		
N	380.775	4.27	4.5	4.9	0.312	0.329	4%	0.616	-0.348	0.01	0.0	0.0	0.0	0.0	180	0.25	-24.7	-24.4	-34.4	-26.9
U	380.775	17.1	18.0	19.6	0.312	0.329	18%	0.616	-0.348	0.01	0.0	0.0	0.0	0.0	180	1.0	-0.4	0.0	0.0	0.0

fige41-1a

-74 Parameter:

L^*_{TAR} & Name

$Y_c = Y/18,$

$L^*_{TAR} = 50$

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

Lichtart P40, $Y_W = 72.0, Y_N = 4.5$

Name Bereich X Y W z z_N Y_N λ_a λ_c a₂ b₂ c₂ A₂ B₂ C_{AB,2} L_{TAR} Y_c L_{TAR} L_{TAR} L_{TAR} L_{TAR} L_{TAR}

R	573.775	46.72	29.04	2.64	0.595	0.370	600	493	1.311	-0.047	0.661	43.1	20.9	48.0	25	1.64	10.8	11.4	11.8	10.2
Y	498.775	59.11	61.97	5.08	0.468	0.491	576	468	0.729	-0.042	0.294	1.9	45.5	45.5	8.7	3.44	32.9	33.7	30.7	24.5
G	498.573	12.47	36.97	5.05	0.281	0.631	540	540	271	-0.071	0.518	-41.1	24.5	47.9	149	2.05	19.2	17.9	17.8	15.1
C	380.573	26.76	39.8	41.89	0.217	0.381	493	600	0.283	-0.547	0.482	-43.1	-20.9	48.0	209	2.21	19.7	20.0	19.7	16.5
B	380.498	10.37	6.87	39.45	0.182	0.121	468	576	0.601	-2.983	2.649	-1.9	-45.5	45.5	267	0.38	-18.4	-18.1	-23.9	-19.7
M	573.498	53.01	31.87	39.47	0.426	0.256	540	540	1.234	-0.644	0.601	41.1	-24.5	47.9	329	1.77	13.2	13.8	14.1	12.1
W	380.775	72.67	72.0	46.57	0.379	0.376	4%	0.717	-0.336	0.01	0.0	0.0	0.0	0.0	37.9	38.8	34.4	26.9		
N	380.775	4.54	4.5	2.91	0.379	0.376	4%	0.717	-0.336	0.01	0.0	0.0	0.0	0.0	180	0.25	-24.7	-24.4	-34.4	-26.9
U	380.775	18.16	18.0	11.64	0.379	0.376	18%	0.717	-0.336	0.01	0.0	0.0	0.0	0.0	180	1.0	-0.4	0.0	0.0	0.0

fige41-3a

$XYZ_W=96.42, 100.0, 82.49$

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

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

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

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

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

$x_c = 0.110, B_c = 1.000$

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

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

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

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

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

Lichtart D50, $Y_W = 72.0, Y_N = 4.5$

Name Bereich X Y W z z_N Y_N λ_a λ_c a₂ b₂ c₂ A₂ B₂ C_{AB,2} L_{TAR} Y_c L_{TAR} L_{TAR} L_{TAR} L_{TAR} L_{TAR}

R	570.775	43.32	28.34	3.37	0.577	0.377	598	491	1.237	-0.047	0.645	41.0	20.0	45.7	25	1.57	10.2	10.8	11.2	9.7
Y	496.775	54.39	61.17	5.93	0.447	0.503	573	468	0.67	-0.008	0.291	2.0	44.5	44.5	8.7	3.39	32.4	33.3	30.4	24.3
G	496.570	14.96	36.87	5.9	0.259	0.635	538	538	0.235	-0.034	0.5	-39.0	24.5	46.1	147	2.04	17.1	17.8	17.8	15.8
C	380.570	23.06	40.5	53.42	0.197	0.346	491	598	0.251	-0.527	0.451	-41.0	-20.0	45.7	205	2.25	19.9	20.5	20.1	16.9
B	380.496	11.99	7.67	50.86	0.17	0.108	468	573	0.552	-2.65	2.323	-2.0	-44.5	44.5	267	0.42	-16.6	-16.3	-21.1	-17.7
M	570.496	51.41	31.97	50.89	0.382	0.238	538	538	1.146	-0.636	0.577	39.0	-24.5	46.1	327	1.77	13.3	13.9	14.2	12.2
W	380.775	69.42	72.0	59.39	0.345	0.358	72%	0.657	-0.329	0.01	0.0	0.0	0.0	0.0	37.9	38.8	34.4	26.9		
N	380.775	4.33	4.5	3.71	0.345	0.358	4%	0.657	-0.329	0.01	0.0	0.0	0.0	0.0	180	0.25	-24.7	-24.4	-34.4	-26.9
U	380.775	17.35	18.0	14.84	0.345	0.358	18%	0.657	-0.329	0.01	0.0	0.0	0.0	0.0	192	1.0	-0.4	0.0	0.0	0.0

fige41-2a

$XYZ_W=109.84, 99.99, 35.58$

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

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

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

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

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

$x_c = 0.110, B_c = 2.500$

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

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

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

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

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

Lichtart A00, $Y_W = 72.0, Y_N = 4.5$

Name Bereich X Y W z z_N Y_N λ_a λ_c a₂ b₂ c₂ A₂ B₂ C_{AB,2} L_{TAR} Y_c L_{TAR} L_{TAR} L_{TAR} L_{TAR} L_{TAR}

R	579.775	52.97	30.18	1.46	0.626	0.356	605	499	1.446	-0.048	0.609	46.6	23.1	52.0	26	1.67	11.8	12.4	12.8	11.0
Y	504.775	67.91	62.35	2.86	0.51	0.468	581	474	0.854	-0.045	0.311	4.0	48.3	48.4	8.5	3.67	33.1	33.9	30.8	24.6
G	504.579	19.38	36.62	2.83	0.31	0.619	547	547	0.357	-0.078	0.546	-42.6	25.1	49.4	149	2.01	16.6	17.3	17.3	14.7
C	380.579	22.65	38.66	23.03	0.268	0.458	499	605	0.345	-0.595	0.539	-46.6	-23.1	52.0	206	2.14	18.5	19.2	19.0	16.0
B	380.504	7.71	6.49	21.63	0.215	0.181	474	581	0.581	-3.332	2.986	-4.0	-48.3	48.4	265	0.36	-19.3	-19.0	-25.3	-20.7
M	579.504	56.24	32.62	21.66	0.508	0.295	547	547	1.351	-0.664	0.606	42.6	-25.1	49.4	329	1.81	13.8	14.5	14.7	12.6
W	380.775	79.09	71.99	25.61	0.447	0.407	72%	0.828	-0.355	0.01	0.0	0.0	0.0	0.0	37.9	38.8	34.4	26.9		
N	380.775	4.54	4.5	1.61	0.447	0.407	4%	0.828	-0.355	0.01	0.0	0.0	0.0	0.0	180	0.25	-24.7	-24.4	-34.4	-26.9
U	380.775	19.77	17.99	6.4	0.447	0.407	18%	0.828	-0.355	0.01	0.0	0.0	0.0	0.0	180	1.0	-0.4	0.0	0.0	0.0

fige41-4a

fige40-7R_R