

$XYZ_W=95.04, 100.0, 108.89$

$$A_2 = 2,5 (a_2 - a_{2,n}) Y$$

$$B_2 = 2,5 (b_2 - b_{2,n}) Y$$

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

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

$$a_{20} = 1, b_{20} = -0,4$$

$$x_c = 0,110, B_c = 0,800$$

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

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

Farbenraum ($C_{AB,2} \triangleright L_{Clr}^*$)

$$L_{Clr}^* = L_{CIE}^*(Y) / L_{CIE}^*(18)$$

Lichtart D65, $Y_W=90.0, Y_N=3.6$

Name	Bereich	X	Y	Z	x	x_c	y	z	λ	λ_c	a_2	b_2	c_2	A_2	B_2	$C_{AB,2}$	$A_{AB,2}$	$B_{AB,2}$	Y_F	L_{CIE}^*	L_{Clr}^*	L_{TV}^*	L_{Taf}^*
R	567	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	63.9	64.5	64.8	62.6	
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	39.6	9.1	4.25	90.1	91.0	85.9	77.8		
G	493	567	16.67	47.05	8.74	0.23	0.649	535	540	0.265	-0.059	0.519	-0.07	33.6	61.0	14.6	2.61	74.2	74.9	73.8	69.7		
C	380	567	30.61	51.52	88.16	0.179	0.302	489	596	0.23	-0.547	0.433	-49.6	-25.6	55.8	207	2.86	76.9	77.7	76.1	71.3		
B	380	493	17.01	7.7	82.95	0.158	0.071	463	570	0.671	-3.444	3.096	1.0	-59.6	39.6	27.1	0.42	33.3	33.7	28.9	32.7		
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	67.4	68.0	68.0	65.2		
W	380	775	85.53	90.0	80.0	0.312	0.329	90%	0.616	-0.348	0.01	0.0	0.0	0.0	0.0	180	0.19	22.3	22.5	9.9	19.8		
N	380	775	3.42	3.6	3.92	0.312	0.329	3%	0.616	-0.348	0.01	0.0	0.0	0.0	0.0	180	0.19	22.3	22.5	9.9	19.8		
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	184	1.0	49.5	50.0	50.0	50.0		

fig70-5a

$XYZ_W=96.42, 100.0, 82.49$

$$A_2 = 2,5 (a_2 - a_{2,n}) Y$$

$$B_2 = 2,5 (b_2 - b_{2,n}) Y$$

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

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

$$a_{20} = 1, b_{20} = -0,4$$

$$x_c = 0,110, B_c = 1,000$$

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

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

Farbenraum ($C_{AB,2} \triangleright L_{Clr}^*$)

$$L_{Clr}^* = L_{CIE}^*(Y) / L_{CIE}^*(18)$$

Lichtart D50, $Y_W=90.0, Y_N=3.6$

Name	Bereich	X	Y	Z	x	x_c	y	z	λ	λ_c	a_2	b_2	c_2	A_2	B_2	$C_{AB,2}$	$A_{AB,2}$	$B_{AB,2}$	Y_F	L_{CIE}^*	L_{Clr}^*	L_{TV}^*	L_{Taf}^*
R	570	775	53.58	34.33	2.71	0.591	0.378	598	491	1.27	-0.031	0.681	52.5	25.6	58.5	25	1.9	65.2	65.8	66.0	63.6		
Y	496	775	67.74	76.35	5.98	0.451	0.508	573	468	0.67	-0.031	0.299	2.5	57.0	57.0	87	4.24	90.0	90.9	85.9	77.8		
G	496	570	17.28	45.26	5.95	0.252	0.66	538	538	0.215	-0.052	0.521	-0.00	31.3	59.0	147	2.51	73.0	73.8	72.9	69.0		
C	380	567	30.61	51.52	88.16	0.179	0.302	489	598	0.23	-0.535	0.469	-52.5	-25.6	58.5	205	2.77	76.0	76.7	75.3	70.7		
B	380	496	13.68	7.88	63.78	0.151	0.134	459	598	0.235	-3.223	2.896	-2.5	-57.0	57.0	267	0.43	33.7	34.0	29.4	32.7		
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	21.6	68.7	69.4	69.2	66.1		
W	380	775	86.78	90.0	74.24	0.345	0.358	90%	0.657	-0.329	0.01	0.0	0.0	0.0	0.0	180	0.19	22.3	22.5	9.9	80.1		
N	380	775	3.47	3.6	2.96	0.345	0.358	3%	0.657	-0.329	0.01	0.0	0.0	0.0	0.0	181	0.19	22.3	22.5	10.0	19.8		
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	186	1.0	49.5	50.0	50.0	50.0		

fig70-6a

$XYZ_W=100.93, 100.0, 64.68$

$$A_2 = 2,5 (a_2 - a_{2,n}) Y$$

$$B_2 = 2,5 (b_2 - b_{2,n}) Y$$

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

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

$$a_{20} = 1, b_{20} = -0,4$$

$$x_c = 0,110, B_c = 1,300$$

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

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

Farbenraum ($C_{AB,2} \triangleright L_{Clr}^*$)

$$L_{Clr}^* = L_{CIE}^*(Y) / L_{CIE}^*(18)$$

Lichtart P40, $Y_W=90.0, Y_N=3.6$

Name	Bereich	X	Y	Z	x	x_c	y	z	λ	λ_c	a_2	b_2	c_2	A_2	B_2	$C_{AB,2}$	$A_{AB,2}$	$B_{AB,2}$	Y_F	L_{CIE}^*	L_{Clr}^*	L_{TV}^*	L_{Taf}^*
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	65.9	66.5	66.6	64.1		
Y	498	775	73.71	77.38	5.25	0.471	0.494	576	468	0.73	-0.035	0.301	2.5	58.2	58.3	87	4.29	90.4	91.4	86.2	78.0		
G	498	573	17.12	45.39	5.21	0.274	0.65	540	540	0.252	-0.059	0.54	-0.07	31.3	61.3	149	2.52	73.1	73.8	72.9	69.0		
C	380	573	31.49	51.52	88.16	0.179	0.302	489	600	0.265	-0.555	0.501	-55.2	-26.8	61.4	205	2.72	75.4	76.2	74.8	70.0		
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	31.4	31.8	26.0	30.1		
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	21.5	68.6	69.3	69.1	66.1		
W	380	775	90.83	90.0	58.22	0.379	0.376	90%	0.717	-0.336	0.01	0.0	0.0	0.0	180	0.19	22.3	22.5	9.9	80.1			
N	380	775	3.63	3.6	2.32	0.379	0.376	3%	0.717	-0.336	0.01	0.0	0.0	0.0	180	0.19	22.3	22.5	9.9	19.8			
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	169	1.0	49.5	50.0	50.0	50.0			

fig70-7a

$XYZ_W=109.84, 99.99, 35.58$

$$A_2 = 2,5 (a_2 - a_{2,n}) Y$$

$$B_2 = 2,5 (b_2 - b_{2,n}) Y$$

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

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

$$a_{20} = 1, b_{20} = -0,4$$

$$x_c = 0,110, B_c = 2,500$$

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

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

Farbenraum ($C_{AB,2} \triangleright L_{Clr}^*$)

$$L_{Clr}^* = L_{CIE}^*(Y) / L_{CIE}^*(18)$$

Lichtart A00, $Y_W=90.0, Y_N=3.6$

Name	Bereich	X	Y	Z	x	x_c	y	z	λ	λ_c	a_2	b_2	c_2	A_2	B_2	$C_{AB,2}$	$A_{AB,2}$	$B_{AB,2}$	Y_F	L_{CIE}^*	L_{Clr}^*	L_{TV}^*	L_{Taf}^*
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	67.0	67.7	67.6	64.9		
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	90.7	91.6	86.6	78.0		
G	504	579	22.67	44.42	2.93	0.323	0.634	547	547	0.337	-0.066	0.57	-0.07	31.3	63.3	149	2.64	72.5	73.2	72.4	68.6		
C	380	579	26.86	47.55	28.79	0.26	0.449	605	636	0.26	-0.605	0.561	-59.7	-29.6	66.6	206	2.64	74.5	75.2	74.1	69.9		
B	380	504	7.74	6.36	27.0	0.188	0.154	474	581	0.565	-4.241	3.898	-5.1	-61.8	62.0	265	0.35	30.3	30.6	24.1	28.8		
M	579	504	69.85	39.81	27.03	0.51	0.291	547	547	1.376	-0.679	0.636	54.5	-32.1	63.3	329	22.1	69.3	70.0	69.7	66.5		
W	380	775	98.86	89.99	32.02	0.447	0.407	90%	0.828	-0.355	0.01	0.0	0.0	0.0	180	0.19	22.3	22.5	9.9	80.1			
N	380	775	3.95	3.6	1.28	0.447	0.407	3%	0.828	-0.355	0.01	0.0	0.0	0.0	181	0.19	22.3	22.5	9.9	19.8			
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	180	1.0	49.5	50.0	50.0	50.0			

fig70-8a

fig70-7R_R