

$$XYZ_{W,10} = 98.51, 99.99, 86.17$$

$$A_{2,10} = 2.5 (a_{2,10} - a_{2,n,10}) Y_{10}$$

$$B_{2,10} = 2.5 B_c (b_{2,10} - b_{2,n,10}) Y_{10}$$

$$a_{2,10} = a_{20} [(x_{10} - x_c) / y_{10}]$$

$$b_{2,10} = b_{20} [z_{10} / y_{10}]$$

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

$$x_c = 0.110, B_c = 1.000$$

$$C_{AB,2,10} = [A_{2,10}^2 + B_{2,10}^2]^{1/2}$$

6 Ostwald colours (o)

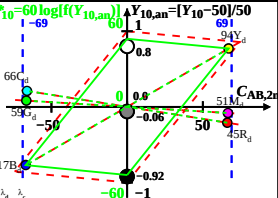
of maximum (m) $C_{AB,10}$ in

linear colour space ($C_{AB,2,10}, Y_{10}$)

Illumin. P50, $Y_{W,10} = 100, Y_{N,10} = 10$

Name	Range	$X_{d,10}$	$Y_{d,10}$	$Z_{d,10}$	$x_{d,10}$	$y_{d,10}$	λ_d	λ_c
R_d	565_775	66.8	44.54	8.7	0.5564	0.371	597	484
Y_d	489_775	85.68	93.58	13.71	0.444	0.4849	569	461
G_d	489_565	28.83	59.14	13.71	0.2835	0.5815	534	534c
C_d	380_565	41.66	65.56	86.17	0.2154	0.339	484	597
B_d	380_489	22.78	16.52	81.16	0.1891	0.1371	461	569
M_d	565_489	79.63	50.96	81.16	0.376	0.2406	534c	534
W_d	380_775	98.51	99.99	86.17	0.346	0.3512	100%	
N_d	380_775	9.85	9.99	8.61	0.346	0.3512	10%	
Z_d	380_775	17.73	17.99	15.51	0.346	0.3512	18%	

$$L^*_{10} = 60 \log[f(Y_{10,an})] \quad Y_{10,an} = [Y_{10} - 50] / 50$$



$$f(Y_{10,an}) = \pm [1 + 10 |Y_{10,an}|^n]$$

n increases to 1 for:

1. decreasing of the contrast C
2. adjacent compared to separate colours.

Parameter:

Y_{10} & Name

Illuminant P50

$Y_{W,10} = 100, Y_{N,10} = 10$