

XYZ_{1,2,3}=98.51, 99.99, 86.17

$$A_{2,10} = 2,5 (a_{2,10} - a_{2,0,10}) Y_{10}$$

$$B_{2,10} = 2,5 B_c (b_{2,10} - b_{2,n,10}) Y_{10}$$

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

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

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

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

$$C_{AB2,10} = [A_{2,10}^2 + B_{2,10}^2]^{1/2}$$

6 Ostwald colours (o)

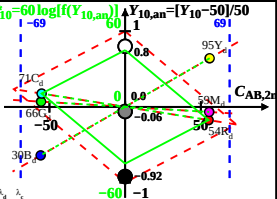
of maximum (m) $C_{AB,10}$ in

linear colour space ($C_{AB,2.10}$, Y_{10})

Illumin. P50, $Y_{w,10}=100$, $Y_{N,10}=25$

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	72.1	53.8	21.62	0.4887	0.3646	597	484
Y_d	489_775	87.84	94.66	25.8	0.4216	0.4544	569	461
G_d	489_565	40.46	65.96	25.8	0.3059	0.4988	534	534c
C_d	380_565	51.15	71.32	86.19	0.2451	0.3417	484	597
B_d	380_489	35.42	30.45	82.01	0.2395	0.2059	461	569
M_d	565_489	82.8	59.15	82.01	0.3696	0.2641	534c	534
W_d	380_775	98.51	99.99	86.17	0.346	0.3512	100%	
N_d	380_775	24.62	24.99	21.54	0.346	0.3512	25%	
Z_d	380_775	17.73	17.99	15.51	0.346	0.3512	18%	

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



$$f(Y_{10,20}) = \pm [1 + 10 |Y_{10,20}|^n]$$

n increases to 1 for:

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

Parameter:

Y₁₀ & Name

Illuminant P50

$$Y_{W,10}=100, Y_{N,10}=25$$