

$$XYZ_{W,10} = 99.8, 100.0, 75.8$$

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

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

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

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

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

$$x_c = 0.110, B_c = 1.100$$

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

6 Ostwald colours (o)

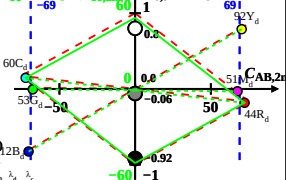
of maximum (m) $C_{AB,10}$ in

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

Illumin. P45, $Y_{W,10} = 100, Y_{N,10} = 4$

Name	Range	$X_{d,10}$	$Y_{d,10}$	$Z_{d,10}$	$x_{d,10}$	$y_{d,10}$	λ_d	λ_c
R_d	567_775	68.89	43.82	3.1	0.5947	0.3783	597	485
Y_d	490_775	87.82	92.45	6.47	0.4702	0.495	571	465
G_d	490_567	23.02	52.73	6.47	0.2799	0.6412	536	536c
C_d	380_567	35.0	60.27	75.81	0.2046	0.3522	485	597
B_d	380_490	16.07	11.64	72.43	0.1605	0.1162	465	571
M_d	567_490	80.87	51.37	72.43	0.3951	0.2509	536c	536
W_d	380_775	99.8	100.0	75.8	0.3621	0.3628	100%	
N_d	380_775	3.99	4.0	3.03	0.3621	0.3628	4%	
Z_d	380_775	17.96	18.0	13.64	0.3621	0.3628	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 P45

$Y_{W,10} = 100, Y_{N,10} = 4$