

XYZ_{W,10}=97.65, 100.0, 95.55

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

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

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

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

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

$$x_c = 0,110, B_c = 0,900$$

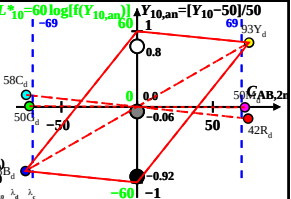
$$C_{AB2,10} = [A_{2,10}^2 + B_{2,10}^2]^{1/2}$$

6 Ostwald colours (o)

of maximum (m) $C_{AB,10}$ inlinear colour space ($C_{AB,2.10}, Y_{10}$)Illumin. P55, $Y_{w10}=100$, $Y_{N10}=0$

Name	Range	$X_{d,10}$	$Y_{d,10}$	$Z_{d,10}$	$x_{d,10}$	$y_{d,10}$	λ_d	λ_c
R_d	564_775	64.96	42.26	0.19	0.6047	0.3934	593	483
Y_d	488_775	81.74	92.54	6.37	0.4524	0.5122	568	460
G_d	488_564	16.97	50.47	6.37	0.2299	0.6837	529	529c
C_d	380_564	32.88	57.93	95.55	0.1764	0.3108	483	593
B_d	380_488	16.1	7.65	89.36	0.1423	0.0676	460	568
M_d	564_488	80.87	49.72	89.36	0.3676	0.226	529c	529
W_d	380_775	97.65	100.0	95.55	0.333	0.341	100%	
N_d	380_775	0.09	0.1	0.09	0.3329	0.3409	0%	
Z_d	380_775	17.57	18.0	17.19	0.333	0.341	18%	

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



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

n increases to 1 for:

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

Parameter:

Y₁₀ & Name

Illuminant P55

$$Y_{W,10}=100, Y_{N,10}=0$$