

$XYZ_{W,10} = 96.72, 99.99, 81.41$

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

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

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

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

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

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

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

6 Ostwald colours (o)

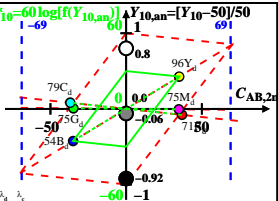
of maximum (m)  $C_{AB,10}$  in

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

Illumin. D50,  $Y_{W,10} = 100, Y_{N,10} = 50$

Name	Range	$X_{d,10}$	$Y_{d,10}$	$Z_{d,10}$	$x_{d,10}$	$y_{d,10}$	$\lambda_d$	$\lambda_c$
R <sub>d</sub>	565_775	81.33	71.08	40.78	0.4209	0.3679	594	484
Y <sub>d</sub>	490_775	90.15	96.38	43.46	0.3919	0.419	568	463
G <sub>d</sub>	490_565	57.28	75.39	43.46	0.3251	0.428	531	531c
C <sub>d</sub>	380_565	63.89	79.06	81.45	0.2847	0.3523	484	594
B <sub>d</sub>	380_490	55.07	53.76	78.77	0.2935	0.2865	463	568
M <sub>d</sub>	565_490	87.95	74.75	78.77	0.3642	0.3095	531c	531
W <sub>d</sub>	380_775	96.72	99.99	81.41	0.3477	0.3595	100%	
N <sub>d</sub>	380_775	48.36	49.99	40.7	0.3477	0.3595	50%	
Z <sub>d</sub>	380_775	17.41	17.99	14.65	0.3477	0.3595	18%	

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



$f(Y_{10,an}) = \pm [1 + 10 |Y_{10,an}|^n]$   
 n increases to 1 for:  
 1. decreasing of the contrast C  
 2. adjacent compared to separate colours.

Parameter:  
 $Y_{10}$  & Name  
 Illuminant D50  
 $Y_{W,10} = 100, Y_{N,10} = 50$