

$XYZ_{W,10} = 101.75, 100.0, 64.44$

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

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

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

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

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

$x_c = 0.110, B_c = 1.300$

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

6 Ostwald colours (o)

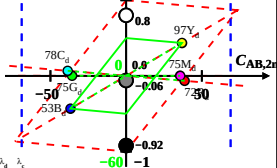
of maximum (m) $C_{AB,10}$ in

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

Illumin. P40, $Y_{W,10} = 100, Y_{N,10} = 50$

Name	Range	$X_{d,10}$	$Y_{d,10}$	$Z_{d,10}$	$x_{d,10}$	$y_{d,10}$	λ_d	λ_c
R_d	569_775	86.63	71.77	32.28	0.4543	0.3763	597	487
Y_d	492_775	96.57	96.76	34.15	0.4244	0.4253	572	465
G_d	492_569	60.91	75.09	34.15	0.3579	0.4413	535	535c
C_d	380_569	66.14	78.37	64.47	0.3164	0.375	487	597
B_d	380_492	56.2	53.38	62.6	0.3264	0.3099	465	572
M_d	569_492	91.86	75.05	62.6	0.4002	0.3269	535c	535
W_d	380_775	101.75	100.0	64.44	0.3822	0.3756	100%	
N_d	380_775	50.87	50.0	32.22	0.3822	0.3756	50%	
Z_d	380_775	18.31	18.0	11.6	0.3822	0.3756	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 P40
 $Y_{W,10} = 100, Y_{N,10} = 50$