

$XYZ_W = 99.2, 100.0, 76.07$

$A_2 = 2.5 (a_2 - a_{2,n}) Y$

$B_2 = 2.5 B_c (b_2 - b_{2,n}) Y$

$a_2 = a_{20} [(x - x_c) / y]$

$b_2 = b_{20} [z / y]$

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

$x_c = 0.110, B_c = 1.100$

$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$

6 Ostwald colours (o)

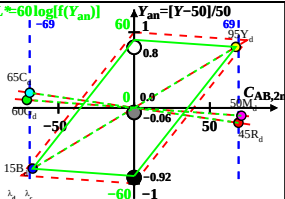
of maximum (m)  $C_{AB}$  in

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

Illumin. P45,  $Y_W = 100, Y_N = 10$

| Name  | Range   | $X_d$ | $Y_d$ | $Z_d$ | $x_d$  | $y_d$  | $\lambda_d$ | $\lambda_c$ |
|-------|---------|-------|-------|-------|--------|--------|-------------|-------------|
| $R_d$ | 572_775 | 69.54 | 45.1  | 7.72  | 0.5682 | 0.3685 | 600         | 492         |
| $Y_d$ | 497_775 | 88.11 | 95.27 | 11.47 | 0.4521 | 0.4889 | 574         | 467         |
| $G_d$ | 497_572 | 28.59 | 60.26 | 11.43 | 0.285  | 0.6009 | 541         | 541c        |
| $C_d$ | 380_572 | 39.69 | 65.0  | 76.04 | 0.2196 | 0.3596 | 492         | 600         |
| $B_d$ | 380_497 | 21.12 | 14.83 | 72.29 | 0.1951 | 0.137  | 467         | 574         |
| $M_d$ | 572_497 | 80.64 | 49.84 | 72.33 | 0.3976 | 0.2457 | 541c        | 541         |
| $W_d$ | 380_775 | 99.2  | 100.0 | 76.07 | 0.3603 | 0.3632 | 100%        |             |
| $N_d$ | 380_775 | 9.92  | 10.0  | 7.6   | 0.3603 | 0.3632 | 10%         |             |
| $Z_d$ | 380_775 | 17.85 | 18.0  | 13.69 | 0.3603 | 0.3632 | 18%         |             |

$L^* = 60 \log[f(Y_{an})]$



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

$n$  increases to 1 for:

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

Parameter:

$Y$  & Name

Illuminant P45

$Y_W = 100, Y_N = 10$