

$XYZ_w = 96.42, 100.0, 82.49$

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

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

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

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

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

$x_c = 0.110, B_c = 1.000$

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

6 Ostwald colours (o)

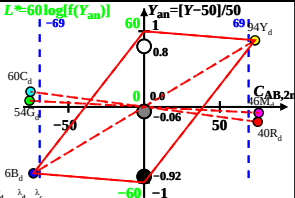
of maximum (m)  $C_{AB}$  in

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

Illumin. D50,  $Y_w = 100, Y_N = 0$

| Name  | Range   | $X_d$ | $Y_d$ | $Z_d$ | $x_d$  | $y_d$  | $\lambda_d$ | $\lambda_c$ |
|-------|---------|-------|-------|-------|--------|--------|-------------|-------------|
| $R_d$ | 570_775 | 64.95 | 40.11 | 0.21  | 0.6169 | 0.381  | 598         | 491         |
| $Y_d$ | 496_775 | 83.13 | 94.04 | 4.41  | 0.4577 | 0.5178 | 573         | 468         |
| $G_d$ | 496_570 | 18.36 | 54.13 | 4.37  | 0.2389 | 0.7041 | 538         | 538c        |
| $C_d$ | 380_570 | 31.66 | 60.08 | 82.44 | 0.1817 | 0.3449 | 491         | 598         |
| $B_d$ | 380_496 | 13.48 | 6.15  | 78.24 | 0.1377 | 0.0628 | 468         | 573         |
| $M_d$ | 570_496 | 78.24 | 46.06 | 78.29 | 0.3862 | 0.2273 | 538c        | 538         |
| $W_d$ | 380_775 | 96.42 | 100.0 | 82.49 | 0.3457 | 0.3585 | 100%        |             |
| $N_d$ | 380_775 | 0.09  | 0.1   | 0.08  | 0.3455 | 0.3583 | 0%          |             |
| $Z_d$ | 380_775 | 17.35 | 18.0  | 14.84 | 0.3457 | 0.3585 | 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 D50

$Y_w = 100, Y_N = 0$