

$XYZ_w = 98.12, 100.0, 86.5$

$A_1 = 2.5 (a_1 - a_{1,n}) Y$

$B_1 = 2.5 B_c (b_1 - b_{1,n}) Y$

$a_1 = a_{20} [(x - x_c) / y]$

$b_1 = b_{20} [z / y]$

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

$x_c = 0.110, B_c = 1.000$

$C_{AB1} = [A_1^2 + B_1^2]^{1/2}$

6 Ostwald colours (o)

of maximum (m)  $C_{AB}$  in  
chromatic value diagram (A, B)<sup>100</sup>

Illumin. P50,  $Y_w = 100, Y_N = 4$

| Name  | Range   | $X_d$ | $Y_d$ | $Z_d$ | $x_d$  | $y_d$  | $\lambda_d$ | $\lambda_c$ |
|-------|---------|-------|-------|-------|--------|--------|-------------|-------------|
| $R_d$ | 570_775 | 63.64 | 38.72 | 3.58  | 0.6006 | 0.3655 | 601         | 491         |
| $Y_d$ | 495_775 | 84.5  | 94.18 | 7.42  | 0.454  | 0.506  | 573         | 467         |
| $G_d$ | 495_570 | 24.88 | 59.55 | 7.38  | 0.2709 | 0.6485 | 542         | 542c        |
| $C_d$ | 380_570 | 38.5  | 65.37 | 86.46 | 0.2023 | 0.3434 | 491         | 601         |
| $B_d$ | 380_495 | 17.64 | 9.92  | 82.62 | 0.1601 | 0.09   | 467         | 573         |
| $M_d$ | 570_495 | 77.26 | 44.54 | 82.66 | 0.3778 | 0.2178 | 542c        | 542         |
| $W_d$ | 380_775 | 98.12 | 100.0 | 86.5  | 0.3447 | 0.3513 | 100%        |             |
| $N_d$ | 380_775 | 3.92  | 4.0   | 3.46  | 0.3447 | 0.3513 | 4%          |             |
| $Z_d$ | 380_775 | 17.66 | 18.0  | 15.57 | 0.3447 | 0.3513 | 18%         |             |

Parameter:

Y & Name

Illuminant P50

$Y_w = 100, Y_N = 4$

