

$XYZ_w = 99.2, 100.0, 76.07$

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

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

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

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

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

$x_c = 0.110, B_c = 1.000$

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

6 Ostwald colours (o)

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

Illumin. P45,  $Y_w = 100, Y_N = 50$

| Name  | Range   | $X_d$ | $Y_d$ | $Z_d$ | $x_c$  | $y_d$  | $\lambda_d$ | $\lambda_c$ |
|-------|---------|-------|-------|-------|--------|--------|-------------|-------------|
| $R_d$ | 572_775 | 82.76 | 69.54 | 38.13 | 0.4345 | 0.3651 | 600         | 492         |
| $Y_d$ | 497_775 | 93.08 | 97.41 | 40.21 | 0.4034 | 0.4222 | 574         | 467         |
| $G_d$ | 497_572 | 60.02 | 77.97 | 40.19 | 0.3368 | 0.4375 | 541         | 541c        |
| $C_d$ | 380_572 | 66.18 | 80.6  | 76.08 | 0.2969 | 0.3616 | 492         | 600         |
| $B_d$ | 380_497 | 55.86 | 52.73 | 74.0  | 0.3059 | 0.2887 | 467         | 574         |
| $M_d$ | 572_497 | 88.93 | 72.17 | 74.02 | 0.3782 | 0.3069 | 541c        | 541         |
| $W_d$ | 380_775 | 99.2  | 100.0 | 76.07 | 0.3603 | 0.3632 | 100%        |             |
| $N_d$ | 380_775 | 49.6  | 50.0  | 38.03 | 0.3603 | 0.3632 | 50%         |             |
| $Z_d$ | 380_775 | 17.85 | 18.0  | 13.69 | 0.3603 | 0.3632 | 18%         |             |

Parameter:

Y & Name

Illuminant P45

$Y_w = 100, Y_N = 50$

