

$XYZ_w = 100.93, 100.0, 64.68$

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

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

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

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

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

$x_c = 0.110, B_c = 1.000$

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

6 Ostwald colours (o)

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

chromatic value diagram (A, B)<sup>100</sup>

Illumin. P40,  $Y_w = 100, Y_N = 4$

| Name           | Range   | $X_d$  | $Y_d$ | $Z_d$ | $x_d$  | $y_d$  | $\lambda_d$ | $\lambda_c$ |
|----------------|---------|--------|-------|-------|--------|--------|-------------|-------------|
| R <sub>d</sub> | 573_775 | 71.45  | 43.55 | 2.69  | 0.607  | 0.37   | 600         | 493         |
| Y <sub>d</sub> | 498_775 | 91.01  | 95.54 | 6.54  | 0.4713 | 0.4947 | 576         | 468         |
| G <sub>d</sub> | 498_573 | 23.69  | 56.08 | 6.5   | 0.2746 | 0.6499 | 540         | 540c        |
| C <sub>d</sub> | 380_573 | 33.61  | 60.54 | 64.64 | 0.2116 | 0.3812 | 493         | 600         |
| B <sub>d</sub> | 380_498 | 14.05  | 8.56  | 60.79 | 0.1685 | 0.1026 | 468         | 576         |
| M <sub>d</sub> | 573_498 | 81.37  | 48.01 | 60.84 | 0.4277 | 0.2524 | 540c        | 540         |
| W <sub>d</sub> | 380_775 | 100.93 | 100.0 | 64.68 | 0.3799 | 0.3764 | 100%        |             |
| N <sub>d</sub> | 380_775 | 4.03   | 4.0   | 2.58  | 0.3799 | 0.3764 | 4%          |             |
| Z <sub>d</sub> | 380_775 | 18.16  | 18.0  | 11.64 | 0.3799 | 0.3764 | 18%         |             |

Parameter:

Y & Name

Illuminant P40

$Y_w = 100, Y_N = 4$

