

$XYZ_{W,10} = 94.81, 100.0, 107.33$

$A_{2,10} = 2,5 (a_{2,10} - a_{2,n,10}) Y_{10}$

$B_{2,10} = 2,5 B_c (b_{2,10} - b_{2,n,10}) Y_{10}$

$a_{2,10} = a_{20} [(x_{10} - x_c) / y_{10}]$

$b_{2,10} = b_{20} [z_{10} / y_{10}]$

$a_{20} = 1, b_{20} = -0,4$

$x_c = 0,110, B_c = 0,800$

$C_{AB,2,10} = [A_{2,10}^2 + B_{2,10}^2]^{1/2}$

6 Ostwald colours (o)

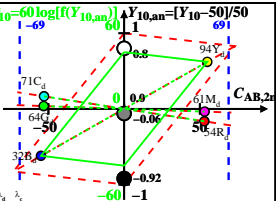
of maximum (m) $C_{AB,10}$ in

linear colour space ($C_{AB,2,10}, Y_{10}$)

Illumin. D65, $Y_{W,10} = 100, Y_{N,10} = 25$

| Name | Range | $X_{d,10}$ | $Y_{d,10}$ | $Z_{d,10}$ | $x_{d,10}$ | $y_{d,10}$ | λ_d | λ_c |
|-------|---------|------------|------------|------------|------------|------------|-------------|-------------|
| R_d | 561_775 | 68.58 | 54.32 | 26.94 | 0.4576 | 0.3625 | 593 | 482 |
| Y_d | 487_775 | 81.44 | 93.61 | 31.88 | 0.3935 | 0.4523 | 566 | 461 |
| G_d | 487_561 | 36.66 | 64.39 | 31.88 | 0.2757 | 0.4843 | 529 | 529c |
| C_d | 380_561 | 50.05 | 70.8 | 107.36 | 0.2193 | 0.3102 | 482 | 593 |
| B_d | 380_487 | 37.18 | 31.5 | 102.41 | 0.2173 | 0.1841 | 461 | 566 |
| M_d | 561_487 | 81.97 | 60.72 | 102.41 | 0.3344 | 0.2477 | 529c | 529 |
| W_d | 380_775 | 94.81 | 100.0 | 107.33 | 0.3137 | 0.3309 | 100% | |
| N_d | 380_775 | 23.7 | 25.0 | 26.83 | 0.3137 | 0.3309 | 25% | |
| Z_d | 380_775 | 17.06 | 18.0 | 19.32 | 0.3137 | 0.3309 | 18% | |

$L^*_{10} = 60 \log[f(Y_{10,an})]$ $Y_{10,an} = [Y_{10} - 50] / 50$



$f(Y_{10,an}) = \pm [1 + 10 |Y_{10,an}|^n]$
 n increases to 1 for:
 1. decreasing of the contrast C
 2. adjacent compared to separate colours.

Parameter:
 Y_{10} & Name
 Illuminant D65
 $Y_{W,10} = 100, Y_{N,10} = 25$