

$XYZ_{W,10} = 97.65, 100.0, 118.42$

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

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

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

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

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

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

$x_c = 0,110, B_c = 0,700$

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

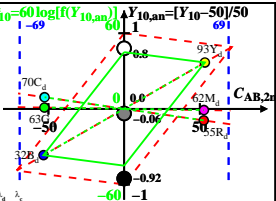
6 Ostwald colours (o)

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

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

Illumin. Q00,  $Y_{W,10} = 100, Y_{N,10} = 25$

| Name           | Range   | $X_{d,10}$ | $Y_{d,10}$ | $Z_{d,10}$ | $x_{d,10}$ | $y_{d,10}$ | $\lambda_d$ | $\lambda_c$ |
|----------------|---------|------------|------------|------------|------------|------------|-------------|-------------|
| R <sub>d</sub> | 561_775 | 70.11      | 54.91      | 29.72      | 0.453      | 0.3548     | 593         | 481         |
| Y <sub>d</sub> | 486_775 | 82.53      | 93.19      | 34.21      | 0.3931     | 0.4439     | 566         | 459         |
| G <sub>d</sub> | 486_561 | 36.93      | 63.38      | 34.21      | 0.2745     | 0.4711     | 530         | 530c        |
| C <sub>d</sub> | 380_561 | 52.07      | 70.21      | 118.45     | 0.2162     | 0.2916     | 481         | 593         |
| B <sub>d</sub> | 380_486 | 39.64      | 31.93      | 113.96     | 0.2136     | 0.172      | 459         | 566         |
| M <sub>d</sub> | 561_486 | 85.25      | 61.74      | 113.96     | 0.3266     | 0.2366     | 530c        | 530         |
| W <sub>d</sub> | 380_775 | 97.65      | 100.0      | 118.42     | 0.3089     | 0.3163     | 100%        |             |
| N <sub>d</sub> | 380_775 | 24.41      | 25.0       | 29.6       | 0.3089     | 0.3163     | 25%         |             |
| Z <sub>d</sub> | 380_775 | 17.57      | 18.0       | 21.31      | 0.3089     | 0.3163     | 18%         |             |



$f(Y_{10,an}) = \pm [1 + 10 |Y_{10,an}|^n]$

n increases to 1 for:

1. decreasing of the contrast C
2. adjacent compared to separate colours.

Parameter:  
 $Y_{10}$  & Name  
 Illuminant Q00  
 $Y_{W,10} = 100, Y_{N,10} = 25$