

XYZ_{W10}=94.81, 100.0, 107.33

$$A_{1,10} = 2.5 (a_{1,10} - a_{1,10}^0) Y_{10}$$

$$B_{1,10} = 2.5 B_1 (b_{1,10} - b_{1,10}^0) Y_{10}$$

$$A_{1,10} = a_{20} [(x_{10} - x_c) / Y_{10}]$$

$$b_{1,10} = b_{20} [z_{10} / Y_{10}]$$

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

$$x_c = 0.110, B_c = 1.000$$

$$C_{AB,10} = [A_{1,10} \frac{1}{2} + B_{1,10}]^{2/12}$$

6 Ostwald colours (o)

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

chromatic value diagram (A₁₀, B₁₀)

Parameter: Y₁₀ & Name Illuminant D65

Y_{W10}=100, Y_{N10}=50

Name Range X₁₀ Y₁₀ Z₁₀ X₁₀ Y₁₀ Z₁₀ X₁₀ Y₁₀ Z₁₀ X₁₀ Y₁₀ Z₁₀

R 565.775 77.25 69.58 54.73 57.07 0.3598 0.4011 566.461

G 487.561 56.07 57.29 43.07 0.296 0.4027 529.5296

C₀ 380.561 65.0 80.56 107.30 0.2509 0.3185 482.994

M 500.449 56.42 54.37 104.04 0.3255 0.253 461.566

M 561.487 86.28 73.85 104.09 0.3265 0.2795 526.5296

W 380.775 94.81 100.0 107.33 0.3137 0.3309 500

N₀ 380.775 47.4 50.0 53.66 0.3137 0.3309 500

Z₀ 380.775 17.06 18.0 19.32 0.3137 0.3309 188

Parameter: Y₁₀ & Name Illuminant D65

Y_{W10}=100, Y_{N10}=50

96Y_d

76G_d

70R_d

81C_d

D65

74M_d

54B_d

Parameter: Y₁₀ & Name Illuminant D50

Y_{W10}=100, Y_{N10}=50

96Y_d

75G_d

71R_d

79C_d

D50

54B_d

75M_d

Parameter: Y₁₀ & Name Illuminant P40

Y_{W10}=100, Y_{N10}=50

97Y_d

75G_d

P40

72R_d

75M_d

53B_d

Parameter: Y₁₀ & Name Illuminant A00

Y_{W10}=100, Y_{N10}=50

98Y_d

77G_d

A00

71R_d

79C_d

53B_d

73M_d

Parameter: Y₁₀ & Name Illuminant E00

Y_{W10}=100, Y_{N10}=50

96Y_d

75G_d

E00

71R_d

79C_d

75M_d

64B_d

Parameter: Y₁₀ & Name Illuminant P00

Y_{W10}=100, Y_{N10}=50

97Y_d

75G_d

P00

71R_d

79C_d

75M_d

53B_d

Parameter: Y₁₀ & Name Illuminant Q00

Y_{W10}=100, Y_{N10}=50

95Y_d

75G_d

Q00

70R_d

80C_d

75M_d

55B_d

Parameter: Y₁₀ & Name Illuminant Q00

Y_{W10}=100, Y_{N10}=50

95Y_d

75G_d

Q00

70R_d

80C_d

75M_d

55B_d

Parameter: Y₁₀ & Name Illuminant P00

Y_{W10}=100, Y_{N10}=50

97Y_d

75G_d

P00

71R_d

79C_d

75M_d

53B_d

Parameter: Y₁₀ & Name Illuminant Q00

Y_{W10}=100, Y_{N10}=50

95Y_d

75G_d

Q00

70R_d

80C_d

75M_d

55B_d

Parameter: Y₁₀ & Name Illuminant P00

Y_{W10}=100, Y_{N10}=50

97Y_d

75G_d

P00

71R_d

79C_d

75M_d

53B_d

Parameter: Y₁₀ & Name Illuminant Q00

Y_{W10}=100, Y_{N10}=50

95Y_d

75G_d

Q00

70R_d

80C_d

75M_d

55B_d

Parameter: Y₁₀ & Name Illuminant P00

Y_{W10}=100, Y_{N10}=50

97Y_d

75G_d

P00

71R_d

79C_d

75M_d

53B_d

XYZ_{W10}=96.72, 99.99, 81.41

$$A_{1,10} = 2.5 (a_{1,10} - a_{1,10}^0) Y_{10}$$

$$B_{1,10} = 2.5 B_1 (b_{1,10} - b_{1,10}^0) Y_{10}$$

$$A_{1,10} = a_{20} [(x_{10} - x_c) / Y_{10}]$$

$$b_{1,10} = b_{20} [z_{10} / Y_{10}]$$

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

$$x_c = 0.110, B_c = 1.000$$

$$C_{AB,10} = [A_{1,10} \frac{1}{2} + B_{1,10}]^{2/12}$$

6 Ostwald colours (o)

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

chromatic value diagram (A₁₀, B₁₀)

Parameter: Y₁₀ & Name Illuminant D65

Y_{W10}=100, Y_{N10}=50

Name Range X₁₀ Y₁₀ Z₁₀ X₁₀ Y₁₀ Z₁₀ X₁₀ Y₁₀ Z₁₀ X₁₀ Y₁₀ Z₁₀

R 565.775 77.25 71.08 40.25 0.4209 0.3079 594.84

G 490.775 90.15 96.38 43.46 0.3919 0.419 568.463

C₀ 380.565 63.89 79.06 81.41 0.2847 0.3324 484.994

M 500.449 56.42 53.76 78.27 0.2935 0.2865 465.568

M 565.490 87.95 74.75 78.27 0.3642 0.3095 531.531

W 380.775 96.72 99.99 81.41 0.3477 0.3395 1000

N₀ 380.775 48.36 49.99 40.07 0.3477 0.3395 500

Z₀ 380.775 17.41 17.99 14.65 0.3477 0.3395 188

Parameter: Y₁₀ & Name Illuminant D50

Y_{W10}=100, Y_{N10}=50

96Y_d

75G_d

71R_d

79C_d

D50

54B_d

75M_d

Parameter: Y₁₀ & Name Illuminant P40

Y_{W10}=100, Y_{N10}=50

97Y_d

75G_d

P40

72R_d

75M_d

53B_d

Parameter: Y₁₀ & Name Illuminant A00

Y_{W10}=100, Y_{N10}=50

98Y_d

77G_d

A00

71R_d

79C_d

53B_d

73M_d

Parameter: Y₁₀ & Name Illuminant E00

Y_{W10}=100, Y_{N10}=50

96Y_d

75G_d

E00

71R_d

79C_d

75M_d

64B_d

Parameter: Y₁₀ & Name Illuminant P00

Y_{W10}=100, Y_{N10}=50

97Y_d

75G_d

P00

71R_d

79C_d

75M_d

53B_d

Parameter: Y₁₀ & Name Illuminant Q00

Y_{W10}=100, Y_{N10}=50

95Y_d

75G_d

Q00

70R_d

80C_d

75M_d

55B_d

Parameter: Y₁₀ & Name Illuminant Q00

Y_{W10}=100, Y_{N10}=50

95Y_d

75G_d

Q00

70R_d

80C_d

75M_d

55B_d

Parameter: Y₁₀ & Name Illuminant P00

Y_{W10}=100, Y_{N10}=50

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75M_d

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Parameter: Y₁₀ & Name Illuminant Q00

Y_{W10}=100, Y_{N10}=50

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Parameter: Y₁₀ & Name Illuminant P00

Y_{W10}=100, Y_{N10}=50

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Parameter: Y₁₀ & Name Illuminant Q00

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Parameter: Y₁₀ & Name Illuminant P00

Y_{W10}=100, Y_{N10}=50

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Parameter: Y₁₀ & Name Illuminant Q00

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