

XYZ_{W10}=94.81, 100.0, 107.34

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

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

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

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

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

$$x_* = 0.110, B_* = 1.000$$

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

6 Ostwald colours (o)

of maximum (m) C_{AB,10} in chromatic value diagram (A₁₀, B₁₀)

Illumin. D65, Y_{W10}=100, Y_{N10}=25

Name Range x_{10} y_{10} z_{10} x_{10}^* y_{10}^* z_{10}^* x_{10}^{λ} y_{10}^{λ} z_{10}^{λ}

R₁ 465.775 81.44 93.61 31.88 0.3935 0.4523 566 461

G₁ 487.561 36.66 64.39 31.88 0.2757 0.4843 529 529c

C₁ 380.561 90.05 70.8 107.3602193 0.1302 0.482 994

M₁ 480.495 87.18 21.5 102.4102173 0.1841 0.601 566

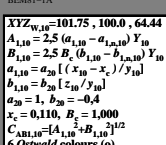
W₁ 561.487 81.97 60.72 102.410334 0.2477 0.529 529

Y₁ 380.775 94.81 100.0 107.33137 0.3309 1000

N₁ 380.775 27.25 25.0 26.83 0.3137 0.3309 25

Z₁ 380.775 17.06 18.0 19.32 0.3137 0.3309 188

Parameter: Y₁₀ & Name Illuminant D65 Y_{W10}=100, Y_{N10}=25



of maximum (m) C_{AB,10} in chromatic value diagram (A₁₀, B₁₀)

Illumin. P40, Y_{W10}=100, Y_{N10}=25

Name Range x_{10} y_{10} z_{10} x_{10}^* y_{10}^* z_{10}^* x_{10}^{λ} y_{10}^{λ} z_{10}^{λ}

R₁ 492.775 83.93 95.1 18.98 0.4515 0.571 572 465

G₁ 492.569 40.44 62.59 18.98 0.3314 0.5129 535 535c

C₁ 380.569 48.28 67.51 64.46 0.2678 0.3745 487 597

M₁ 380.492 33.38 30.02 61.65 0.2669 0.254 465 572

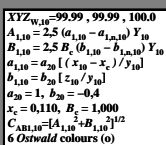
W₁ 569.490 86.87 62.51 61.65 0.4115 0.2962 535 535

Y₁ 380.775 101.75100.0 64.44 0.3822 0.3756 1000

N₁ 380.775 25.43 25.0 16.11 0.3822 0.3756 1000

Z₁ 380.775 18.31 18.0 11.6 0.3822 0.3756 188

Parameter: Y₁₀ & Name Illuminant P40 Y_{W10}=100, Y_{N10}=25



of maximum (m) C_{AB,10} in chromatic value diagram (A₁₀, B₁₀)

Illumin. E00, Y_{W10}=100, Y_{N10}=25

Name Range x_{10} y_{10} z_{10} x_{10}^* y_{10}^* z_{10}^* x_{10}^{λ} y_{10}^{λ} z_{10}^{λ}

R₁ 487.775 87.39 94.42 29.8 0.4129 0.461 568 459

G₁ 487.564 37.84 62.71 29.8 0.2902 0.481 530 530c

C₁ 380.564 50.46 68.31 100.010300 0.2302 0.1322 482 594

M₁ 380.487 37.17 30.09 95.33 0.2303 0.1874 459 568

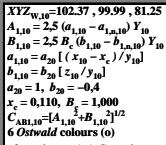
W₁ 561.487 87.27 62.4 95.33 0.3561 0.2947 530 530

Y₁ 380.775 99.99 100.0 100.0 0.3333 0.3333 1000

N₁ 380.775 24.99 24.99 25.0 0.3333 0.3333 25

Z₁ 380.775 17.99 18.0 0.3333 0.3333 188

Parameter: Y₁₀ & Name Illuminant E00 Y_{W10}=100, Y_{N10}=25



of maximum (m) C_{AB,10} in chromatic value diagram (A₁₀, B₁₀)

Illumin. P00, Y_{W10}=100, Y_{N10}=25

Name Range x_{10} y_{10} z_{10} x_{10}^* y_{10}^* z_{10}^* x_{10}^{λ} y_{10}^{λ} z_{10}^{λ}

R₁ 561.775 78.08 57.18 20.39 0.3010 0.3873 597 484

G₁ 489.567 37.27 64.96 24.2 0.3164 0.4091 571 461

C₁ 489.567 39.88 62.88 24.2 0.3141 0.4852 533 533c

M₁ 380.567 50.01 67.94 81.27 0.251 0.341 484 597

W₁ 380.489 35.81 30.16 77.46 0.2497 0.2102 461 571

M₁ 489.88 82.21 62.2 77.46 0.387 0.273 535 533

Y₁ 380.775 102.3799 100.0 118.25 0.3609 0.325 1000

N₁ 380.775 25.59 24.99 20.31 0.3609 0.325 25

Z₁ 380.775 18.42 18.0 14.62 0.3609 0.325 188

Parameter: Y₁₀ & Name Illuminant P00 Y_{W10}=100, Y_{N10}=25



XYZ_{W10}=96.72, 99.99, 81.41

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

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

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

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

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

$$x_* = 0.110, B_* = 1.000$$

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

6 Ostwald colours (o)

of maximum (m) C_{AB,10} in chromatic value diagram (A₁₀, B₁₀)

Illumin. D50, Y_{W10}=100, Y_{N10}=25

Name Range x_{10} y_{10} z_{10} x_{10}^* y_{10}^* z_{10}^* x_{10}^{λ} y_{10}^{λ} z_{10}^{λ}

R₁ 465.775 82.39 95.37 20.41 0.4890 0.3756 594 484

G₁ 490.755 36.82 64.52 24.44 0.4218 0.4993 568 463

C₁ 490.565 37.5 63.04 24.44 0.3 0.5043 531 531c

M₁ 380.565 47.43 68.54 81.41 0.2402 0.3472 484 594

W₁ 560.490 83.21 30.6 77.41 0.2405 0.2351 465 568

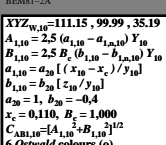
M₁ 565.490 83.51 62.07 77.41 0.3744 0.2783 531 531

Y₁ 380.775 96.72 99.99 81.41 0.3477 0.3595 1000

N₁ 380.775 24.18 24.99 20.35 0.3477 0.3595 25

Z₁ 380.775 17.41 17.99 14.65 0.3477 0.3595 188

Parameter: Y₁₀ & Name Illuminant D50 Y_{W10}=100, Y_{N10}=25



of maximum (m) C_{AB,10} in chromatic value diagram (A₁₀, B₁₀)

Illumin. A00, Y_{W10}=100, Y_{N10}=25

Name Range x_{10} y_{10} z_{10} x_{10}^* y_{10}^* z_{10}^* x_{10}^{λ} y_{10}^{λ} z_{10}^{λ}

R₁ 475.875 83.7 95.67 10.48 0.5006 0.3271 605 494

G₁ 498.775 30.71196 32.0 10.48 0.3951 0.5213 546 546c

C₁ 380.575 53.63 69.1 35.2 0.3396 0.4374 493 606

M₁ 380.498 33.96 28.79 33.55 0.3380 0.3052 499 577

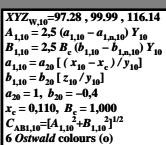
W₁ 575.498 85.9 39.71 33.55 0.4890 0.3267 546 546

Y₁ 380.775 111.5999 99.99 35.19 0.4511 0.4059 1000

N₁ 380.775 27.78 24.99 8.79 0.4511 0.4059 25

Z₁ 380.775 20.0 18.0 6.33 0.4511 0.4059 188

Parameter: Y₁₀ & Name Illuminant A00 Y_{W10}=100, Y_{N10}=25



of maximum (m) C_{AB,10} in chromatic value diagram (A₁₀, B₁₀)

Illumin. E00, Y_{W10}=100, Y_{N10}=25

Name Range x_{10} y_{10} z_{10} x_{10}^* y_{10}^* z_{10}^* x_{10}^{λ} y_{10}^{λ} z_{10}^{λ}

R₁ 498.775 87.39 94.42 29.8 0.4129 0.461 568 459

G₁ 498.569 40.44 62.59 18.98 0.3314 0.5129 535 535c

C₁ 380.569 48.28 67.51 64.46 0.2678 0.3745 487 597

M₁ 380.492 33.38 30.02 61.65 0.2669 0.254 465 572

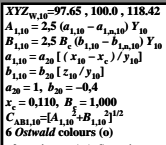
W₁ 569.490 86.87 62.51 61.65 0.4115 0.2962 535 535

Y₁ 380.775 101.75100.0 64.44 0.3822 0.3756 1000

N₁ 380.775 25.43 25.0 16.11 0.3822 0.3756 1000

Z₁ 380.775 18.31 18.0 11.6 0.3822 0.3756 188

Parameter: Y₁₀ & Name Illuminant E00 Y_{W10}=100, Y_{N10}=25



of maximum (m) C_{AB,10} in chromatic value diagram (A₁₀, B₁₀)

Illumin. C00, Y_{W10}=100, Y_{N10}=25

Name Range x_{10} y_{10} z_{10} x_{10}^* y_{10}^* z_{10}^* x_{10}^{λ} y_{10}^{λ} z_{10}^{λ}

R₁ 465.775 78.08 57.18 20.39 0.3010 0.3873 597 484

G₁ 486.561 36.93 62.87 33.75 0.2765 0.4707 530 530c

M₁ 380.561 51.54 59.66 116.1701268 0.2943 481 593

C₁ 380.486 39.03 32.18 111.5712135 0.176 461 567

M₁ 486.498 82.79 62.25 111.5712135 0.2407 530 530

W₁ 380.775 97.28 99.99 116.14101319 100.0 1000

N₁ 380.775 24.32 24.99 20.03 0.3103 0.319 25

Z₁ 380.775 17.51 18.0 20.9 0.3103 0.319 188

Parameter: Y₁₀ & Name Illuminant C00 Y_{W10}=100, Y_{N10}=25



of maximum (m) C_{AB,10} in chromatic value diagram (A₁₀, B₁₀)

Illumin. Q00, Y_{W10}=100, Y_{N10}=25

Name Range x_{10} y_{10} z_{10} x_{10}^* y_{10}^* z_{10}^* x_{10}^{λ} y_{10}^{λ} z_{10}^{λ}

R₁ 561.775 79.11 54.01 29.72 0.433 0.3581 597 484

G₁ 489.567 38.53 63.19 24.2 0.3931 0.4439 566 459

C₁ 486.561 36.93 63.38 24.21 0.2745 0.4711 530 530c

M₁ 380.561 52.07 70.21 118.452162 0.2916 481 593

W₁ 380.486 39.64 31.93 113.9612160 0.172 499 566

M₁ 486.565 82.25 61.74 113.9612160 0.2366 530 530

Y₁ 380.775 97.65 100.0 118.425009 0.3163 1000

N₁ 380.775 24.41 25.0 29.6 0.3089 0.3163 25

Z₁ 380.775 17.57 18.0 21.31 0.3089 0.3163 188

Parameter: Y₁₀ & Name Illuminant Q00 Y_{W10}=100, Y_{N10}=25

BEMBI-7A

BEMBI-2A

BEMBI-3A

BEMBI-4A

BEMBI-5A

BEMBI-6A

BEMBI-7R

BEMBI-8A