

**XTZ<sub>1</sub>=95.04, 100.0, 108.89**  $L^*=60 \log\{f(Y_{an})\}$   $Y_{an}=[Y-50]/50$

$A_2 = 2.5(a_1 - a_2) Y$   
 $B_2 = 2.5 B_1 (b_2 - b_1) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} [z / y]$   
 $a_{20} = 1, b_{20} = -0.4$   
 $a_1 = 0.110, B_1 = 0.800$   
 $C_{AB} = [A_2^2 + B_2^2]^{1/2}$   
**6 Ostwald-Farben (o)**  
 von maximalem (m)  $C_{AB}$  im linearen Farbraum  $(C_{AB,2} Y)$

Lichtart D65,  $Y_w=100, Y_c=25$

Name Bereich  $Y_1$   $Y_2$   $Z_1$   $Z_2$   $a_1$   $a_2$   $b_1$   $b_2$   
 R<sub>1</sub> 507.775 61.53 65.25 27.26 0.587 0.581 996 409  
 Y<sub>1</sub> 493.775 81.63 95.72 32.39 0.382 0.463 570 463  
 G<sub>1</sub> 496.567 36.95 67.31 32.39 0.204 0.402 53 536  
 C<sub>1</sub> 380.570 39.71 62 108.89 0.2182 0.1301 49 699  
 M<sub>1</sub> 380.493 37.92 29.24 103.62 0.2196 0.1724 65 679  
 W<sub>1</sub> 380.493 81.96 50.4 103.89 0.3162 0.2732 53 535  
 M<sub>2</sub> 380.775 95.04 100.0 108.89 0.3127 0.329 100%  
 N<sub>1</sub> 380.775 23.76 25.0 27.22 0.3127 0.329 25%  
 Z<sub>1</sub> 380.775 17.18 18.0 18.9 0.3127 0.329 18%

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

1. nähert sich 1 für:  
 1. abnehmendem Kontrast C  
 2. aneinandergrenzende / separate Farben.

Parameter:  
 Y & Name  
 Lichtart D65  
 $Y_w=100, Y_c=25$

**XTZ<sub>2</sub>=96.42, 100.0, 82.49**  $L^*=60 \log\{f(Y_{an})\}$   $Y_{an}=[Y-50]/50$

$A_2 = 2.5(a_1 - a_2) Y$   
 $B_2 = 2.5 B_1 (b_2 - b_1) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} [z / y]$   
 $a_{20} = 1, b_{20} = -0.4$   
 $a_1 = 0.110, B_1 = 1.000$   
 $C_{AB} = [A_2^2 + B_2^2]^{1/2}$   
**6 Ostwald-Farben (o)**  
 von maximalem (m)  $C_{AB}$  im linearen Farbraum  $(C_{AB,2} Y)$

Lichtart D50,  $Y_w=100, Y_c=25$

Name Bereich  $Y_1$   $Y_2$   $Z_1$   $Z_2$   $a_1$   $a_2$   $b_1$   $b_2$   
 R<sub>1</sub> 507.775 62.82 65.26 27.26 0.489 0.704 596 491  
 Y<sub>1</sub> 496.775 86.46 95.55 29.21 0.419 0.464 573 468  
 G<sub>1</sub> 496.570 37.84 65.58 23.86 0.2973 0.5152 538 536  
 C<sub>1</sub> 380.570 47.82 70.06 82.49 0.2380 0.1496 491 398  
 M<sub>1</sub> 380.493 41.18 29.27 97.92 0.2380 0.2066 408 473  
 W<sub>1</sub> 380.496 82.48 90.53 92.93 0.3734 0.2085 538 538  
 M<sub>2</sub> 380.775 96.42 100.0 82.49 0.3457 0.3585 100%  
 N<sub>1</sub> 380.775 24.1 25.0 26.02 0.3457 0.3585 25%  
 Z<sub>1</sub> 380.775 17.35 18.0 14.84 0.3457 0.3585 18%

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

1. nähert sich 1 für:  
 1. abnehmendem Kontrast C  
 2. aneinandergrenzende / separate Farben.

Parameter:  
 Y & Name  
 Lichtart D50  
 $Y_w=100, Y_c=25$

**BGP81-1A**  $L^*=60 \log\{f(Y_{an})\}$   $Y_{an}=[Y-50]/50$

$A_2 = 2.5(a_1 - a_2) Y$   
 $B_2 = 2.5 B_1 (b_2 - b_1) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} [z / y]$   
 $a_{20} = 1, b_{20} = -0.4$   
 $a_1 = 0.110, B_1 = 1.300$   
 $C_{AB} = [A_2^2 + B_2^2]^{1/2}$   
**6 Ostwald-Farben (o)**  
 von maximalem (m)  $C_{AB}$  im linearen Farbraum  $(C_{AB,2} Y)$

Lichtart P40,  $Y_w=100, Y_c=25$

Name Bereich  $Y_1$   $Y_2$   $Z_1$   $Z_2$   $a_1$   $a_2$   $b_1$   $b_2$   
 R<sub>1</sub> 572.775 62.82 65.26 27.26 0.519 0.725 600 499  
 Y<sub>1</sub> 498.775 83.2 96.53 19.27 0.449 0.461 576 468  
 G<sub>1</sub> 498.573 40.61 65.19 19.24 0.3234 0.5233 540 546  
 C<sub>1</sub> 380.573 48.36 69.19 64.67 0.2654 0.1797 493 605  
 M<sub>1</sub> 380.498 33.08 28.54 11.66 0.2682 0.2317 408 576  
 W<sub>1</sub> 380.493 80.67 90.41 61.49 0.4143 0.2873 540 540  
 M<sub>2</sub> 380.775 100.910000 64.68 0.3799 0.3764 100%  
 N<sub>1</sub> 380.775 23.25 25.0 16.17 0.3799 0.3764 25%  
 Z<sub>1</sub> 380.775 18.16 18.0 11.64 0.3799 0.3764 18%

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

1. nähert sich 1 für:  
 1. abnehmendem Kontrast C  
 2. aneinandergrenzende / separate Farben.

Parameter:  
 Y & Name  
 Lichtart P40  
 $Y_w=100, Y_c=25$

**BGP81-2A**  $L^*=60 \log\{f(Y_{an})\}$   $Y_{an}=[Y-50]/50$

$A_2 = 2.5(a_1 - a_2) Y$   
 $B_2 = 2.5 B_1 (b_2 - b_1) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} [z / y]$   
 $a_{20} = 1, b_{20} = -0.4$   
 $a_1 = 0.110, B_1 = 2.500$   
 $C_{AB} = [A_2^2 + B_2^2]^{1/2}$   
**6 Ostwald-Farben (o)**  
 von maximalem (m)  $C_{AB}$  im linearen Farbraum  $(C_{AB,2} Y)$

Lichtart A00,  $Y_w=100, Y_c=25$

Name Bereich  $Y_1$   $Y_2$   $Z_1$   $Z_2$   $a_1$   $a_2$   $b_1$   $b_2$   
 R<sub>1</sub> 579.775 62.82 65.26 27.26 0.560 0.729 605 499  
 Y<sub>1</sub> 504.775 85.80 97.11 10.68 0.4956 0.4543 581 474  
 G<sub>1</sub> 504.579 45.99 64.78 10.68 0.3787 0.5335 547 605  
 C<sub>1</sub> 380.579 50.02 67.79 35.56 0.3261 0.442 499 605  
 M<sub>1</sub> 380.564 31.6 28.11 33.84 0.3377 0.3034 474 581  
 W<sub>1</sub> 380.504 84.45 60.34 33.87 0.4925 0.3249 547 547  
 M<sub>2</sub> 380.775 109.8499 35.58 0.4475 0.4074 100%  
 N<sub>1</sub> 380.775 27.46 24.99 8.89 0.4475 0.4074 25%  
 Z<sub>1</sub> 380.775 19.77 19.99 6.4 0.4475 0.4074 18%

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

1. nähert sich 1 für:  
 1. abnehmendem Kontrast C  
 2. aneinandergrenzende / separate Farben.

Parameter:  
 Y & Name  
 Lichtart A00  
 $Y_w=100, Y_c=25$

**XTZ<sub>3</sub>=100.0, 100.0, 100.0**  $L^*=60 \log\{f(Y_{an})\}$   $Y_{an}=[Y-50]/50$

$A_2 = 2.5(a_1 - a_2) Y$   
 $B_2 = 2.5 B_1 (b_2 - b_1) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} [z / y]$   
 $a_{20} = 1, b_{20} = -0.4$   
 $a_1 = 0.110, B_1 = 0.900$   
 $C_{AB} = [A_2^2 + B_2^2]^{1/2}$   
**6 Ostwald-Farben (o)**  
 von maximalem (m)  $C_{AB}$  im linearen Farbraum  $(C_{AB,2} Y)$

Lichtart E00,  $Y_w=100, Y_c=25$

Name Bereich  $Y_1$   $Y_2$   $Z_1$   $Z_2$   $a_1$   $a_2$   $b_1$   $b_2$   
 R<sub>1</sub> 507.775 74.54 55.25 25.25 0.5794 0.5759 949 409  
 Y<sub>1</sub> 494.775 87.55 96.13 29.64 0.4105 0.4507 573 463  
 G<sub>1</sub> 494.570 38.51 65.88 29.56 0.2875 0.4518 536 536  
 C<sub>1</sub> 380.570 50.98 67.79 99.98 0.2309 0.316 49 699  
 M<sub>1</sub> 380.494 37.56 28.98 95.52 0.2317 0.1788 463 573  
 W<sub>1</sub> 380.496 86.4 99.28 95.56 0.3847 0.2453 536 536  
 M<sub>2</sub> 380.775 100.0 100.0 100.0 0.3333 0.3333 100%  
 N<sub>1</sub> 380.775 25.0 25.0 25.0 0.3333 0.3333 25%  
 Z<sub>1</sub> 380.775 18.0 18.0 18.0 0.3333 0.3333 18%

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

1. nähert sich 1 für:  
 1. abnehmendem Kontrast C  
 2. aneinandergrenzende / separate Farben.

Parameter:  
 Y & Name  
 Lichtart E00  
 $Y_w=100, Y_c=25$

**BGP81-3A**  $L^*=60 \log\{f(Y_{an})\}$   $Y_{an}=[Y-50]/50$

$A_2 = 2.5(a_1 - a_2) Y$   
 $B_2 = 2.5 B_1 (b_2 - b_1) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} [z / y]$   
 $a_{20} = 1, b_{20} = -0.4$   
 $a_1 = 0.110, B_1 = 0.700$   
 $C_{AB} = [A_2^2 + B_2^2]^{1/2}$   
**6 Ostwald-Farben (o)**  
 von maximalem (m)  $C_{AB}$  im linearen Farbraum  $(C_{AB,2} Y)$

Lichtart C00,  $Y_w=100, Y_c=25$

Name Bereich  $Y_1$   $Y_2$   $Z_1$   $Z_2$   $a_1$   $a_2$   $b_1$   $b_2$   
 R<sub>1</sub> 507.775 70.54 54.58 25.25 0.6359 0.5323 996 491  
 Y<sub>1</sub> 492.775 83.38 95.54 34.86 0.4468 0.571 463  
 G<sub>1</sub> 492.567 37.54 66.15 34.83 0.2709 0.4753 535 535  
 C<sub>1</sub> 380.567 50.25 66.33 118.21 0.2167 0.2929 487 596  
 M<sub>1</sub> 380.492 39.32 29.58 113.06 0.2161 0.1623 463 571  
 W<sub>1</sub> 380.492 82.47 98.96 113.09 0.3311 0.2292 535 535  
 M<sub>2</sub> 380.775 98.07 100.0 118.22 0.31 0.3161 100%  
 N<sub>1</sub> 380.775 25.1 25.0 29.53 0.31 0.3161 25%  
 Z<sub>1</sub> 380.775 17.65 18.0 21.28 0.31 0.3161 18%

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

1. nähert sich 1 für:  
 1. abnehmendem Kontrast C  
 2. aneinandergrenzende / separate Farben.

Parameter:  
 Y & Name  
 Lichtart C00  
 $Y_w=100, Y_c=25$

**BGP81-5A**  $L^*=60 \log\{f(Y_{an})\}$   $Y_{an}=[Y-50]/50$

$A_2 = 2.5(a_1 - a_2) Y$   
 $B_2 = 2.5 B_1 (b_2 - b_1) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} [z / y]$   
 $a_{20} = 1, b_{20} = -0.4$   
 $a_1 = 0.110, B_1 = 1.000$   
 $C_{AB} = [A_2^2 + B_2^2]^{1/2}$   
**6 Ostwald-Farben (o)**  
 von maximalem (m)  $C_{AB}$  im linearen Farbraum  $(C_{AB,2} Y)$

Lichtart P00,  $Y_w=100, Y_c=25$

Name Bereich  $Y_1$   $Y_2$   $Z_1$   $Z_2$   $a_1$   $a_2$   $b_1$   $b_2$   
 R<sub>1</sub> 567.775 77.3 55.25 25.28 0.530 0.521 949 409  
 Y<sub>1</sub> 492.775 82.09 95.28 32.27 0.4359 0.4538 575 467  
 G<sub>1</sub> 496.572 40.4 64.47 23.24 0.3129 0.507 541 541  
 C<sub>1</sub> 380.572 50.4 69.41 81.04 0.2506 0.3462 49 699  
 M<sub>1</sub> 380.496 35.61 29.24 78.15 0.249 0.2044 467 575  
 W<sub>1</sub> 380.496 87.3 99.63 78.18 0.3877 0.2649 541 541  
 M<sub>2</sub> 380.775 102.00000 81.06 0.3604 0.3531 100%  
 N<sub>1</sub> 380.775 25.51 25.0 20.26 0.3604 0.3531 25%  
 Z<sub>1</sub> 380.775 18.37 18.0 14.59 0.3604 0.3531 18%

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

1. nähert sich 1 für:  
 1. abnehmendem Kontrast C  
 2. aneinandergrenzende / separate Farben.

Parameter:  
 Y & Name  
 Lichtart P00  
 $Y_w=100, Y_c=25$

**BGP81-7A**  $L^*=60 \log\{f(Y_{an})\}$   $Y_{an}=[Y-50]/50$

$A_2 = 2.5(a_1 - a_2) Y$   
 $B_2 = 2.5 B_1 (b_2 - b_1) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} [z / y]$   
 $a_{20} = 1, b_{20} = -0.4$   
 $a_1 = 0.110, B_1 = 0.700$   
 $C_{AB} = [A_2^2 + B_2^2]^{1/2}$   
**6 Ostwald-Farben (o)**  
 von maximalem (m)  $C_{AB}$  im linearen Farbraum  $(C_{AB,2} Y)$

Lichtart Q00,  $Y_w=100, Y_c=25$

Name Bereich  $Y_1$   $Y_2$   $Z_1$   $Z_2$   $a_1$   $a_2$   $b_1$   $b_2$   
 R<sub>1</sub> 507.775 70.54 54.26 25.28 0.6359 0.5313 996 491  
 Y<sub>1</sub> 492.775 82.38 95.29 32.89 0.4388 0.4479 570 462  
 G<sub>1</sub> 492.567 37.29 66.65 30.56 0.2683 0.4794 535 535  
 C<sub>1</sub> 380.567 50.25 66.33 118.84 0.2159 0.2927 487 596  
 M<sub>1</sub> 380.492 39.55 29.32 113.74 0.2165 0.1605 462 570  
 W<sub>1</sub> 380.492 82.47 98.49 113.74 0.3311 0.2271 535 535  
 M<sub>2</sub> 380.775 97.93 100.0 118.85 0.309 0.3155 100%  
 N<sub>1</sub> 380.775 24.48 25.0 29.73 0.309 0.3155 25%  
 Z<sub>1</sub> 380.775 17.62 18.0 21.41 0.309 0.3155 18%

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

1. nähert sich 1 für:  
 1. abnehmendem Kontrast C  
 2. aneinandergrenzende / separate Farben.

Parameter:  
 Y & Name  
 Lichtart Q00  
 $Y_w=100, Y_c=25$