

XYZ<sub>w</sub>=95.04, 100.0, 108.89

-74 Parameter:  
 $L^*_{TU,r} = L^*_{TU,r} - 50$   
 $L^*_{TU,r}$  & Name  
 $Y_r = Y/18$   
 $C^*_{AB,2} = I^*_{50}$   
 $A_2 = 2,5 (a_2 - a_{2,n}) Y$   
 $B_2 = 2,5 (b_2 - b_{2,n}) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} B_c [z / y]$   
 $a_{20} = 1, b_{20} = -0,4$   
 $x_c = 0,110, B_c = 0,800$   
 $C^*_{AB,2} = [A_2^2 + B_2^2]^{1/2}$   
6 Ostwald-Farben (o),  $C_{AB,2} = \text{const}$   
Farbenraum ( $C_{AB,2} > L^*_{TU,r}$ )  
 $L^*_{TU,r} = 50 + 40[Y_r / \log(5)]$

Lichtart D65,  $Y_w = 90,0, Y = 3,6$

Name Bereich X Y Z x x<sub>N</sub> y<sub>N</sub> z<sub>N</sub> λ<sub>a</sub> λ<sub>c</sub> a<sub>2</sub> b<sub>2</sub> c<sub>2</sub> A<sub>2</sub> B<sub>2</sub> C<sub>AB,2</sub> L<sub>TU,r</sub> Y<sub>r</sub> I<sub>50</sub> L<sub>TU,r</sub> L<sub>TU,r</sub> L<sub>TU,r</sub> L<sub>TU,r</sub>  
R. 567.775 49.44 32.71 3.56 0.576 0.381 596 489 1.223 -0.034 0.083 49.6 25.6 55.8 27 1.81 13.9 14.5 14.8 12.6  
Y. 493.775 63.04 76.53 8.77 0.424 0.515 570 463 0.61 -0.036 0.331 -1.0 59.6 59.6 9.1 4.2 40.1 41.0 35.9 27.8  
G. 493.567 16.67 47.05 8.74 0.23 0.649 535 535 0.184 -0.059 0.518 -50.7 33.7 61.0 146 20.1 24.2 24.9 23.8 19.7  
C. 380.567 30.61 51.52 88.16 0.179 0.302 489 596 0.23 -0.547 0.433 -49.6 -25.6 55.8 207 286 26.9 27.7 26.1 21.3  
B. 380.493 17.01 7.7 82.95 0.158 0.071 463 570 0.671 -3.444 3.096 1.0 -59.6 59.6 271 6.42 -16.6 -16.2 -21.0 -17.6  
M. 567.493 63.38 37.18 92.98 0.345 0.202 535 535 1.161 -0.714 0.656 0.0 -33.9 61.0 326 2.06 17.4 18.0 18.0 15.2  
W. 380.775 85.53 90.0 88.00 0.312 0.329 906 0.616 -0.348 0.01 0.0 0.0 0.0 4.99 45.9 46.9 40.0 30.1  
N. 380.775 3.42 3.6 3.92 0.312 0.329 3.6 0.616 -0.348 0.01 0.0 0.0 0.0 18.9 0.19 -27.6 -27.4 -40.0 -30.1  
U. 380.775 17.1 18.0 19.6 0.312 0.329 18.0 0.616 -0.348 0.01 0.0 0.0 0.0 18.9 1.0 -0.4 0.0 0.0 0.0

fig30-5a

XYZ<sub>w</sub>=96.42, 100.0, 82.49

-74 Parameter:  
 $L^*_{TU,r} = L^*_{TU,r} - 50$   
 $L^*_{TU,r}$  & Name  
 $Y_r = Y/18$   
 $C^*_{AB,2} = I^*_{50}$   
 $A_2 = 2,5 (a_2 - a_{2,n}) Y$   
 $B_2 = 2,5 (b_2 - b_{2,n}) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} B_c [z / y]$   
 $a_{20} = 1, b_{20} = -0,4$   
 $x_c = 0,110, B_c = 1,000$   
 $C^*_{AB,2} = [A_2^2 + B_2^2]^{1/2}$   
6 Ostwald-Farben (o),  $C_{AB,2} = \text{const}$   
Farbenraum ( $C_{AB,2} > L^*_{TU,r}$ )  
 $L^*_{TU,r} = 50 + 40[Y_r / \log(5)]$

Lichtart D50,  $Y_w = 90,0, Y = 3,6$

Name Bereich X Y Z x x<sub>N</sub> y<sub>N</sub> z<sub>N</sub> λ<sub>a</sub> λ<sub>c</sub> a<sub>2</sub> b<sub>2</sub> c<sub>2</sub> A<sub>2</sub> B<sub>2</sub> C<sub>AB,2</sub> L<sub>TU,r</sub> Y<sub>r</sub> I<sub>50</sub> L<sub>TU,r</sub> L<sub>TU,r</sub> L<sub>TU,r</sub> L<sub>TU,r</sub>  
R. 570.775 53.58 34.33 2.71 0.591 0.378 598 491 1.27 -0.031 0.81 52.5 25.6 58.5 25 1.9 15.2 15.8 16.0 13.6  
Y. 496.775 67.74 76.35 5.98 0.451 0.508 573 468 0.67 -0.031 0.29 25 57.0 57.0 8.7 4.2 40.0 40.9 35.9 27.8  
G. 496.570 17.28 45.26 5.95 0.252 0.66 538 538 0.215 -0.052 0.533 -50.0 31.3 59.0 147 25.5 23.0 23.8 22.9 19.0  
C. 380.570 27.64 49.9 66.78 0.191 0.345 491 598 0.235 -0.535 0.465 -52.5 -25.6 58.5 205 2.7 26.0 26.7 25.3 20.7  
B. 380.496 13.48 7.88 63.5 0.158 0.092 468 573 0.526 -3.223 2.896 -2.5 -57.0 57.0 267 0.43 -16.2 -15.9 -20.5 -17.2  
M. 570.496 63.94 38.97 63.54 0.384 0.234 538 538 1.17 -0.652 0.606 0.0 -31.3 59.0 327 2.16 18.7 19.4 19.2 16.1  
W. 380.775 86.78 90.0 74.24 0.345 0.358 906 0.657 -0.329 0.01 0.0 0.0 0.0 4.99 45.9 46.9 40.0 30.1  
N. 380.775 3.47 3.6 2.96 0.345 0.358 3.6 0.657 -0.329 0.01 0.0 0.0 0.0 18.9 0.19 -27.6 -27.4 -40.0 -30.1  
U. 380.775 17.35 18.0 14.84 0.345 0.358 18.0 0.657 -0.329 0.01 0.0 0.0 0.0 18.9 1.0 -0.4 0.0 0.0 0.0

fig30-6a

XYZ<sub>w</sub>=100.93, 100.0, 64.68

-74 Parameter:  
 $L^*_{TU,r} = L^*_{TU,r} - 50$   
 $L^*_{TU,r}$  & Name  
 $Y_r = Y/18$   
 $C^*_{AB,2} = I^*_{50}$   
 $A_2 = 2,5 (a_2 - a_{2,n}) Y$   
 $B_2 = 2,5 (b_2 - b_{2,n}) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} B_c [z / y]$   
 $a_{20} = 1, b_{20} = -0,4$   
 $x_c = 0,110, B_c = 1,300$   
 $C^*_{AB,2} = [A_2^2 + B_2^2]^{1/2}$   
6 Ostwald-Farben (o),  $C_{AB,2} = \text{const}$   
Farbenraum ( $C_{AB,2} > L^*_{TU,r}$ )  
 $L^*_{TU,r} = 50 + 40[Y_r / \log(5)]$

Lichtart P40,  $Y_w = 90,0, Y = 3,6$

Name Bereich X Y Z x x<sub>N</sub> y<sub>N</sub> z<sub>N</sub> λ<sub>a</sub> λ<sub>c</sub> a<sub>2</sub> b<sub>2</sub> c<sub>2</sub> A<sub>2</sub> B<sub>2</sub> C<sub>AB,2</sub> L<sub>TU,r</sub> Y<sub>r</sub> I<sub>50</sub> L<sub>TU,r</sub> L<sub>TU,r</sub> L<sub>TU,r</sub> L<sub>TU,r</sub>  
R. 573.775 57.85 35.23 2.13 0.607 0.37 600 493 1.344 -0.031 0.697 55.2 26.8 61.4 25 1.95 15.9 16.5 16.6 14.1  
Y. 498.775 73.71 77.38 5.25 0.471 0.494 576 468 0.73 -0.035 0.01 25.5 58.2 58.3 87 4.29 40.0 41.4 36.2 28.0  
G. 498.573 17.12 45.39 5.21 0.274 0.65 540 540 0.252 -0.059 0.531 -52.7 31.3 61.3 149 23.5 23.1 23.8 22.9 19.0  
C. 380.573 29.49 50.0 82.36 0.211 0.381 493 600 0.265 -0.555 0.500 -55.2 -26.8 61.4 205 2.7 25.4 26.2 24.8 20.4  
B. 380.498 11.31 6.85 49.24 0.167 0.101 468 576 0.568 -3.733 3.4 2.5 -58.2 58.3 267 0.8 -18.5 -18.1 -23.9 -19.8  
M. 573.498 65.89 38.84 49.27 0.427 0.252 540 540 1.26 -0.659 0.631 0.0 -31.3 61.3 329 1.5 18.6 19.3 19.1 16.1  
W. 380.775 90.83 90.0 58.22 0.379 0.376 906 0.717 -0.336 0.01 0.0 0.0 0.0 4.99 45.9 46.9 40.0 30.1  
N. 380.775 3.6 3.6 2.32 0.379 0.376 3.6 0.717 -0.336 0.01 0.0 0.0 0.0 18.9 0.19 -27.6 -27.4 -40.0 -30.1  
U. 380.775 18.16 18.0 11.64 0.379 0.376 18.0 0.717 -0.336 0.01 0.0 0.0 0.0 18.9 1.0 -0.4 0.0 0.0 0.0

fig30-7a

XYZ<sub>w</sub>=109.84, 99.99, 35.58

-74 Parameter:  
 $L^*_{TU,r} = L^*_{TU,r} - 50$   
 $L^*_{TU,r}$  & Name  
 $Y_r = Y/18$   
 $C^*_{AB,2} = I^*_{50}$   
 $A_2 = 2,5 (a_2 - a_{2,n}) Y$   
 $B_2 = 2,5 (b_2 - b_{2,n}) Y$   
 $a_2 = a_{20} [(x - x_c) / y]$   
 $b_2 = b_{20} B_c [z / y]$   
 $a_{20} = 1, b_{20} = -0,4$   
 $x_c = 0,110, B_c = 2,500$   
 $C^*_{AB,2} = [A_2^2 + B_2^2]^{1/2}$   
6 Ostwald-Farben (o),  $C_{AB,2} = \text{const}$   
Farbenraum ( $C_{AB,2} > L^*_{TU,r}$ )  
 $L^*_{TU,r} = 50 + 40[Y_r / \log(5)]$

Lichtart A00,  $Y_w = 90,0, Y = 3,6$

Name Bereich X Y Z x x<sub>N</sub> y<sub>N</sub> z<sub>N</sub> λ<sub>a</sub> λ<sub>c</sub> a<sub>2</sub> b<sub>2</sub> c<sub>2</sub> A<sub>2</sub> B<sub>2</sub> C<sub>AB,2</sub> L<sub>TU,r</sub> Y<sub>r</sub> I<sub>50</sub> L<sub>TU,r</sub> L<sub>TU,r</sub> L<sub>TU,r</sub> L<sub>TU,r</sub>  
R. 579.775 65.67 36.68 1.18 0.634 0.354 605 499 1.479 -0.032 0.727 59.7 26.9 66.6 26 2.03 17.0 17.7 17.6 14.9  
Y. 504.775 84.79 77.87 2.96 0.511 0.47 581 474 0.854 -0.038 0.318 51 61.8 62.0 85 4.32 40.7 41.6 36.4 28.0  
G. 504.579 22.67 44.42 2.93 0.323 0.634 547 547 0.337 -0.066 0.37 -54.5 32.1 63.3 149 24.6 22.5 23.2 22.4 18.6  
C. 380.579 26.86 47.25 28.79 0.26 0.46 499 605 0.326 -0.605 0.501 -59.7 -29.6 66.6 206 2.6 24.5 25.2 24.1 19.9  
B. 380.504 7.14 6.36 27.0 0.188 0.154 474 581 0.565 -4.241 3.889 -5.1 -61.8 62.0 265 0.5 -19.6 -19.3 -25.8 -21.1  
M. 579.504 69.85 39.81 27.03 0.51 0.291 547 547 1.176 -0.679 0.636 0.0 -32.1 63.3 329 2.21 19.3 20.0 19.7 16.5  
W. 380.775 98.86 89.99 32.02 0.447 0.407 906 0.828 -0.355 0.01 0.0 0.0 0.0 4.99 45.9 46.9 40.0 30.1  
N. 380.775 3.95 3.6 3.28 0.447 0.407 3.6 0.828 -0.355 0.01 0.0 0.0 0.0 18.9 0.19 -27.6 -27.4 -40.0 -30.1  
U. 380.775 19.77 17.99 6.4 0.447 0.407 18.0 0.828 -0.355 0.01 0.0 0.0 0.0 18.9 1.0 -0.4 0.0 0.0 0.0

fig30-8a