

| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w</sub> =100, Y <sub>m</sub> =520_770, LINYAB-Daten        |                                 |                  |                  |                  |                 |        |         |                 |                                 |                                 |         |         |     |  | % |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|------------------|------------------|-----------------|--------|---------|-----------------|---------------------------------|---------------------------------|---------|---------|-----|--|---|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                        | i <sub>2</sub> , λ <sub>2</sub> | Y <sub>100</sub> | A <sub>100</sub> | B <sub>100</sub> | C <sub>AB</sub> | a      | b       | h <sub>AB</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code    |         |     |  | % |
| 0                                                                                                                                      | 405                             | 32               | 561              | 58.2             | -22.74          | -17.89 | 28.94   | 0.5596          | -0.743                          | 218.1                           | 16 483  | 37 589  | Cm  |  | % |
| 6                                                                                                                                      | 435                             | 32               | 562              | 58.79            | -26.78          | -9.88  | 28.55   | 0.4948          | -0.6036                         | 200.2                           | 17 486  | 42 610  |     |  | % |
| 10                                                                                                                                     | 450                             | 32               | 563              | 59.42            | -33.54          | 4.93   | 33.9    | 0.3859          | -0.3525                         | 171.6                           | 19 496  | -1 496c |     |  | % |
| 12                                                                                                                                     | 460                             | 33               | 565              | 60.32            | -36.45          | 12.66  | 38.58   | 0.3461          | -0.2256                         | 160.8                           | 21 505  | -1 505c |     |  | % |
| 12                                                                                                                                     | 465                             | 33               | 567              | 61.66            | -36.65          | 13.24  | 38.97   | 0.356           | -0.2207                         | 160.1                           | 21 506  | -1 506c |     |  | % |
| 14                                                                                                                                     | 470                             | 33               | 569              | 62.72            | -38.14          | 19.32  | 42.76   | 0.3422          | -0.1274                         | 153.1                           | 24 520  | -1 520c |     |  | % |
| 15                                                                                                                                     | 475                             | 34               | 573              | 65.29            | -38.28          | 22.47  | 44.39   | 0.364           | -0.0913                         | 149.5                           | 25 528  | -1 528c | Gm  |  | % |
| 16                                                                                                                                     | 480                             | 36               | 580              | 69.95            | -37.48          | 26.04  | 45.64   | 0.4146          | -0.0632                         | 145.2                           | 27 537  | -1 537c |     |  | % |
| 17                                                                                                                                     | 485                             | 39               | 595              | 78.75            | -32.73          | 31.0   | 45.09   | 0.5347          | -0.0418                         | 136.5                           | 29 548  | -1 548c |     |  | % |
| 18                                                                                                                                     | 490                             | -1               | 490c             | 93.8             | -12.06          | 38.4   | 40.25   | 0.8218          | -0.0261                         | 107.4                           | 33 565  | 11 459  | max |  | % |
| 19                                                                                                                                     | 495                             | -1               | 495c             | 92.3             | -10.68          | 38.39  | 39.85   | 0.8346          | -0.0195                         | 105.5                           | 33 566  | 12 462  |     |  | % |
| 20                                                                                                                                     | 500                             | -1               | 500c             | 90.42            | -8.91           | 38.07  | 39.1    | 0.8518          | -0.0144                         | 103.1                           | 33 567  | 12 464  |     |  | % |
| 22                                                                                                                                     | 510                             | -1               | 510c             | 85.27            | -4.15           | 36.48  | 36.72   | 0.9016          | -0.0076                         | 96.5                            | 33 569  | 13 469  |     |  | % |
| 23                                                                                                                                     | 520                             | -1               | 519c             | 81.98            | -1.26           | 35.24  | 35.26   | 0.935           | -0.0056                         | 92.0                            | 34 570  | 14 471  | Ym  |  | % |
| 25                                                                                                                                     | 530                             | -1               | 529c             | 74.04            | 5.15            | 32.02  | 32.43   | 1.0201          | -0.0031                         | 80.8                            | 34 573  | 15 475  |     |  | % |
| 27                                                                                                                                     | 540                             | -1               | 539c             | 64.9             | 11.57           | 28.16  | 30.44   | 1.1288          | -0.0016                         | 67.6                            | 35 577  | 15 478  |     |  | % |
| 28                                                                                                                                     | 545                             | -1               | 544c             | 60.13            | 14.5            | 26.11  | 29.87   | 1.1917          | -0.0012                         | 60.9                            | 35 579  | 15 479  |     |  | % |
| 29                                                                                                                                     | 550                             | -1               | 549c             | 55.26            | 17.18           | 24.01  | 29.53   | 1.2613          | -0.0009                         | 54.4                            | 36 582  | 16 480  |     |  | % |
| 30                                                                                                                                     | 555                             | -1               | 554c             | 50.4             | 19.49           | 21.91  | 29.33   | 1.3372          | -0.0007                         | 48.3                            | 36 584  | 16 481  |     |  | % |
| 32                                                                                                                                     | 560                             | -1               | 560c             | 41.0             | 22.8            | 17.83  | 28.95   | 1.5064          | -0.0005                         | 38.0                            | 37 589  | 16 483  |     |  | % |
| 380                                                                                                                                    | 770                             | 100.0            | 0.0              | 0.0              | 0.01            | 0.9504 | -0.4355 | 0.0             |                                 |                                 |         |         |     |  | % |
| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w</sub> =100, Y <sub>m</sub> =770_520, LINYAB komplementär |                                 |                  |                  |                  |                 |        |         |                 |                                 |                                 |         |         |     |  | % |
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                        | i <sub>2</sub> , λ <sub>2</sub> | Y <sub>100</sub> | A <sub>100</sub> | B <sub>100</sub> | C <sub>AB</sub> | a      | b       | h <sub>AB</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code    |         |     |  | % |
| 32                                                                                                                                     | 561                             | 0                | 405              | 41.79            | 22.74           | 17.89  | 28.94   | 1.4946          | -0.0072                         | 38.1                            | 37 589  | 16 483  | Rm  |  | % |
| 32                                                                                                                                     | 562                             | 6                | 435              | 41.2             | 26.78           | 9.88   | 28.55   | 1.6006          | -0.1956                         | 20.2                            | 42 610  | 17 486  |     |  | % |
| 32                                                                                                                                     | 563                             | 10               | 450              | 40.57            | 33.54           | -4.93  | 33.9    | 1.7771          | -0.557                          | 351.6                           | -1 496c | 19 496  |     |  | % |
| 33                                                                                                                                     | 565                             | 12               | 460              | 39.67            | 36.45           | -12.66 | 38.58   | 1.8691          | -0.7547                         | 340.8                           | -1 505c | 21 505  |     |  | % |
| 33                                                                                                                                     | 567                             | 12               | 465              | 38.33            | 36.65           | -13.24 | 38.97   | 1.9064          | -0.781                          | 340.1                           | -1 506c | 21 506  |     |  | % |
| 33                                                                                                                                     | 569                             | 14               | 470              | 37.27            | 38.14           | -19.32 | 42.76   | 1.9738          | -0.954                          | 333.1                           | -1 520c | 24 520  |     |  | % |
| 34                                                                                                                                     | 573                             | 15               | 475              | 34.7             | 38.28           | -22.47 | 44.39   | 2.0536          | -1.083                          | 329.5                           | -1 528c | 25 528  | Mm  |  | % |
| 36                                                                                                                                     | 580                             | 16               | 480              | 30.04            | 37.48           | -26.04 | 45.64   | 2.1982          | -1.3026                         | 325.2                           | -1 537c | 27 537  |     |  | % |
| 39                                                                                                                                     | 595                             | 17               | 485              | 21.24            | 32.73           | -31.0  | 45.09   | 2.4914          | -1.8952                         | 316.5                           | -1 548c | 29 548  |     |  | % |
| -1                                                                                                                                     | 490c                            | 18               | 490              | 6.19             | 12.06           | -38.4  | 40.25   | 2.899           | -6.6372                         | 287.4                           | 11 459  | 33 565  | min |  | % |
| -1                                                                                                                                     | 495c                            | 19               | 495              | 7.69             | 10.68           | -38.39 | 39.85   | 2.3392          | -5.4245                         | 285.5                           | 12 462  | 33 566  |     |  | % |
| -1                                                                                                                                     | 500c                            | 20               | 500              | 9.57             | 8.91            | -38.07 | 39.1    | 1.8814          | -4.4105                         | 283.1                           | 12 464  | 33 567  |     |  | % |
| -1                                                                                                                                     | 510c                            | 22               | 510              | 14.72            | 4.15            | -36.48 | 36.72   | 1.2328          | -2.9143                         | 276.5                           | 13 469  | 33 569  |     |  | % |
| -1                                                                                                                                     | 519c                            | 23               | 520              | 18.01            | 1.26            | -35.24 | 35.26   | 1.0204          | -2.3925                         | 272.0                           | 14 471  | 34 570  | Bm  |  | % |
| -1                                                                                                                                     | 529c                            | 25               | 530              | 25.95            | -5.15           | -32.02 | 32.43   | 0.7516          | -1.6693                         | 260.8                           | 15 475  | 34 573  |     |  | % |
| -1                                                                                                                                     | 539c                            | 27               | 540              | 35.09            | -11.57          | -28.16 | 30.44   | 0.6205          | -1.238                          | 247.6                           | 15 478  | 35 577  |     |  | % |
| -1                                                                                                                                     | 544c                            | 28               | 545              | 39.86            | -14.5           | -26.11 | 29.87   | 0.5865          | -1.0906                         | 240.9                           | 15 479  | 35 579  |     |  | % |
| -1                                                                                                                                     | 549c                            | 29               | 550              | 44.73            | -17.18          | -24.01 | 29.53   | 0.5663          | -0.9725                         | 234.4                           | 16 480  | 36 582  |     |  | % |
| -1                                                                                                                                     | 554c                            | 30               | 555              | 49.59            | -19.49          | -21.91 | 29.33   | 0.5572          | -0.8774                         | 228.3                           | 16 481  | 36 584  |     |  | % |
| -1                                                                                                                                     | 560c                            | 32               | 560              | 58.99            | -22.8           | -17.83 | 28.95   | 0.5638          | -0.7379                         | 218.0                           | 16 483  | 37 589  |     |  | % |
| 380                                                                                                                                    | 770                             | 100.0            | 0.0              | 0.0              | 0.01            | 0.9504 | -0.4355 | 0.0             |                                 |                                 |         |         |     |  | % |

| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w</sub> =100, Y <sub>m</sub> =520_770, LINYAB-Daten |                                 |                  |                  |                  |                 |        |         |                 |                                 |                                 |      |   |  | % |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|------------------|------------------|-----------------|--------|---------|-----------------|---------------------------------|---------------------------------|------|---|--|---|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                 | i <sub>2</sub> , λ <sub>2</sub> | Y <sub>100</sub> | A <sub>100</sub> | B <sub>100</sub> | C <sub>AB</sub> | a      | b       | h <sub>AB</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |   |  |   |
| 0 405                                                                                                                           | 32 561                          | 58.2             | -22.74           | -17.89           | 28.94           | 0.5596 | -0.743  | 218.1           | 16 483                          | 37 589                          | Cm   | % |  |   |
| 6 435                                                                                                                           | 32 562                          | 58.79            | -26.78           | -9.88            | 28.55           | 0.4948 | -0.6036 | 200.2           | 17 486                          | 42 610                          |      | % |  |   |
| 10 450                                                                                                                          | 32 563                          | 59.42            | -33.54           | 4.93             | 33.9            | 0.3859 | -0.3525 | 171.6           | 19 496                          | -1 496c                         |      | % |  |   |
| 12 460                                                                                                                          | 33 565                          | 60.32            | -36.45           | 12.66            | 38.58           | 0.3461 | -0.2256 | 160.8           | 21 505                          | -1 505c                         |      | % |  |   |
| 12 465                                                                                                                          | 33 567                          | 61.66            | -36.65           | 13.24            | 38.97           | 0.356  | -0.2207 | 160.1           | 21 506                          | -1 506c                         |      | % |  |   |
| 14 470                                                                                                                          | 33 569                          | 62.72            | -38.14           | 19.32            | 42.76           | 0.3422 | -0.1274 | 153.1           | 24 520                          | -1 520c                         |      | % |  |   |
| 15 475                                                                                                                          | 34 573                          | 65.29            | -38.28           | 22.47            | 44.39           | 0.364  | -0.0913 | 149.5           | 25 528                          | -1 528c                         | Gm   | % |  |   |
| 16 480                                                                                                                          | 36 580                          | 69.95            | -37.48           | 26.04            | 45.64           | 0.4146 | -0.0632 | 145.2           | 27 537                          | -1 537c                         |      | % |  |   |
| 17 485                                                                                                                          | 39 595                          | 78.75            | -32.73           | 31.0             | 45.09           | 0.5347 | -0.0418 | 136.5           | 29 548                          | -1 548c                         |      | % |  |   |
| 18 490                                                                                                                          | -1 490c                         | 93.8             | -12.06           | 38.4             | 40.25           | 0.8218 | -0.0261 | 107.4           | 33 565                          | 11 459                          | max  | % |  |   |
| 19 495                                                                                                                          | -1 495c                         | 92.3             | -10.68           | 38.39            | 39.85           | 0.8346 | -0.0195 | 105.5           | 33 566                          | 12 462                          |      | % |  |   |
| 20 500                                                                                                                          | -1 500c                         | 90.42            | -8.91            | 38.07            | 39.1            | 0.8518 | -0.0144 | 103.1           | 33 567                          | 12 464                          |      | % |  |   |
| 22 510                                                                                                                          | -1 510c                         | 85.27            | -4.15            | 36.48            | 36.72           | 0.9016 | -0.0076 | 96.5            | 33 569                          | 13 469                          |      | % |  |   |
| 23 520                                                                                                                          | -1 519c                         | 81.98            | -1.26            | 35.24            | 35.26           | 0.935  | -0.0056 | 92.0            | 34 570                          | 14 471                          | Ym   | % |  |   |
| 25 530                                                                                                                          | -1 529c                         | 74.04            | 5.15             | 32.02            | 32.43           | 1.0201 | -0.0031 | 80.8            | 34 573                          | 15 475                          |      | % |  |   |
| 27 540                                                                                                                          | -1 539c                         | 64.9             | 11.57            | 28.16            | 30.44           | 1.1288 | -0.0016 | 67.6            | 35 577                          | 15 478                          |      | % |  |   |
| 28 545                                                                                                                          | -1 544c                         | 60.13            | 14.5             | 26.11            | 29.87           | 1.1917 | -0.0012 | 60.9            | 35 579                          | 15 479                          |      | % |  |   |
| 29 550                                                                                                                          | -1 549c                         | 55.26            | 17.18            | 24.01            | 29.53           | 1.2613 | -0.0009 | 54.4            | 36 582                          | 16 480                          |      | % |  |   |
| 30 555                                                                                                                          | -1 554c                         | 50.4             | 19.49            | 21.91            | 29.33           | 1.3372 | -0.0007 | 48.3            | 36 584                          | 16 481                          |      | % |  |   |
| 32 560                                                                                                                          | -1 560c                         | 41.0             | 22.8             | 17.83            | 28.95           | 1.5064 | -0.0005 | 38.0            | 37 589                          | 16 483                          |      | % |  |   |
| 380                                                                                                                             | 770                             | 100.0            | 0.0              | 0.0              | 0.01            | 0.9504 | -0.4355 | 0.0             |                                 |                                 |      | % |  |   |

| rgb* <sub>e,AB</sub> und CIE-Daten eines Elementar-Bunttonkreises nach CIE R1-47 für Ostwald-Farben für CIE-Lichtart D65                                                                             |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|--------|-----------------|-------|-------|-----------------|-----------------|------|--------|--------|------------------|-----------------|----------------------|--------------------|
| X <sub>Yy</sub> , abc <sub>AB</sub> , ABC <sub>AB</sub> , LabC* <sub>ab</sub> h <sub>ab</sub> -Daten für relative Stufung des Elementarbunttons h <sub>AB</sub> von LINYAB für CIE-2-Grad Beobachter |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |
| Elementar-Bunttonkreis mit 4 Ziel-Elementar-Bunttonwinkeln: h <sub>AB</sub> = 17.7, 93.3, 159.1, 270.8 von LINYAB und 16 Ziel-Bunttonwinkeln:                                                        |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |
| 17.7 36.6 55.5 74.4 93.3 109.7 126.2 142.7 159.1 187.0 214.9 242.8 270.8 297.5 324.2 351.0                                                                                                           |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |
| LINYAB-Daten CIE-Testfarben 9 (R): 11.2 9.9 3.1, 10 (Y): 59.0 -1.2 20.9, 11 (G): 20.3 -7.2 2.7, 12 (B): 6.4 0.1 -8.2                                                                                 |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |
| no <sub>AB</sub>                                                                                                                                                                                     | Y     | x     | y     | a     | b      | c <sub>AB</sub> | A     | B     | C <sub>AB</sub> | h <sub>AB</sub> | L*   | a*     | b*     | C* <sub>ab</sub> | h <sub>ab</sub> | rgb* <sub>e,AB</sub> | Code <sub>AB</sub> |
| 000                                                                                                                                                                                                  | 41.1  | 0.508 | 0.314 | 1.615 | -0.224 | 0.697           | 27.3  | 8.6   | 28.7            | 17.5            | 70.2 | 71.9   | 29.3   | 77.6             | 22.2            | 1.00 0.00 0.00       | % R00Y #           |
| 001                                                                                                                                                                                                  | 41.7  | 0.59  | 0.393 | 1.499 | -0.016 | 0.691           | 22.9  | 17.5  | 28.8            | 37.3            | 70.7 | 61.3   | 99.1   | 116.6            | 58.2            | 1.00 0.25 0.00       | % R25Y #           |
| 002                                                                                                                                                                                                  | 56.0  | 0.554 | 0.444 | 1.249 | 0.0    | 0.527           | 16.7  | 24.3  | 29.5            | 55.5            | 79.6 | 39.3   | 135.2  | 140.8            | 73.7            | 1.00 0.50 0.00       | % R50Y #           |
| 003                                                                                                                                                                                                  | 69.3  | 0.516 | 0.481 | 1.072 | -0.002 | 0.45            | 8.5   | 30.0  | 31.2            | 74.2            | 86.7 | 18.2   | 143.3  | 144.5            | 82.7            | 1.00 0.75 0.00       | % R75Y #           |
| 004                                                                                                                                                                                                  | 83.1  | 0.476 | 0.515 | 0.923 | -0.006 | 0.43            | -2.1  | 35.6  | 35.7            | 93.5            | 93.0 | -4.4   | 142.7  | 142.8            | 91.7            | 1.00 1.00 0.00       | % Y00G #           |
| 005                                                                                                                                                                                                  | 92.9  | 0.429 | 0.533 | 0.805 | -0.027 | 0.433           | -13.4 | 37.9  | 40.2            | 109.5           | 97.1 | -26.2  | 117.8  | 120.7            | 102.5           | 0.75 1.00 0.00       | % Y25G #           |
| 006                                                                                                                                                                                                  | 84.5  | 0.373 | 0.575 | 0.649 | -0.035 | 0.5             | -25.4 | 33.8  | 42.3            | 126.9           | 93.6 | -56.2  | 107.3  | 121.2            | 117.6           | 0.50 1.00 0.00       | % Y50G #           |
| 007                                                                                                                                                                                                  | 71.9  | 0.276 | 0.634 | 0.435 | -0.056 | 0.639           | -37.0 | 27.2  | 46.0            | 143.6           | 87.9 | -102.5 | 88.5   | 135.4            | 139.2           | 0.25 1.00 0.00       | % Y75G #           |
| 008                                                                                                                                                                                                  | 61.7  | 0.188 | 0.532 | 0.354 | -0.21  | 0.637           | -36.8 | 13.9  | 39.3            | 159.2           | 82.8 | -119.3 | 36.7   | 124.8            | 162.8           | 0.00 1.00 0.00       | % G00B #           |
| 009                                                                                                                                                                                                  | 59.0  | 0.166 | 0.375 | 0.443 | -0.487 | 0.509           | -29.9 | -3.0  | 30.1            | 185.8           | 81.3 | -94.1  | -6.4   | 94.3             | 183.9           | 0.00 0.00 0.50       | % G25B #           |
| 010                                                                                                                                                                                                  | 58.2  | 0.163 | 0.296 | 0.552 | -0.727 | 0.494           | -23.2 | -17.0 | 28.7            | 216.2           | 80.8 | -69.1  | -31.1  | 75.8             | 204.2           | 0.00 1.00 1.00       | % G50B #           |
| 011                                                                                                                                                                                                  | 38.6  | 0.134 | 0.227 | 0.592 | -1.124 | 0.776           | -13.8 | -26.6 | 30.0            | 242.5           | 68.5 | -53.0  | -54.1  | 75.7             | 225.6           | 0.00 0.50 1.00       | % G75B #           |
| 012                                                                                                                                                                                                  | 18.7  | 0.127 | 0.129 | 0.985 | -2.302 | 1.867           | 0.6   | -34.9 | 34.9            | 271.0           | 50.3 | 3.4    | -84.8  | 84.9             | 272.3           | 0.00 0.00 1.00       | % B00R #           |
| 013                                                                                                                                                                                                  | 10.6  | 0.204 | 0.075 | 2.711 | -3.816 | 3.812           | 18.8  | -36.1 | 40.7            | 297.5           | 39.0 | 99.2   | -100.7 | 141.4            | 314.5           | 0.50 0.50 1.00       | % B25R #           |
| 014                                                                                                                                                                                                  | 29.3  | 0.338 | 0.152 | 2.224 | -1.338 | 1.561           | 37.3  | -26.4 | 45.8            | 324.6           | 61.0 | 108.8  | -60.3  | 124.4            | 331.0           | 1.00 0.00 1.00       | % B50R #           |
| 015                                                                                                                                                                                                  | 40.5  | 0.423 | 0.237 | 1.784 | -0.572 | 0.845           | 33.8  | -5.5  | 34.2            | 350.6           | 69.8 | 86.4   | -14.1  | 87.5             | 350.7           | 1.00 0.00 0.50       | % B75R #           |
| 016                                                                                                                                                                                                  | 41.1  | 0.508 | 0.314 | 1.615 | -0.224 | 0.697           | 27.3  | 8.6   | 28.7            | 17.5            | 70.2 | 71.9   | 29.3   | 77.6             | 22.2            | 1.00 0.00 0.00       | % R00Y #           |
| CIEXYZ-Daten of CIE-Testfarben 9 (R): 20.6 11.2 4.3, 10 (Y): 54.8 59.0 12.0, 11 (G): 12.1 20.3 15.3, 12 (B): 6.2 6.4 27.6                                                                            |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |
| 5-stufige gleichabständige Graureihe mit Ziel-Helligkeit: L* = 0.0, 25.0, 50.0, 75.0, 100.0                                                                                                          |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |
| 000                                                                                                                                                                                                  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 1.045           | 0.0   | 0.0   | 0.0             | 0.0             | 0.0  | 0.0    | 0.0    | 0.0              | 0.0             | 0.00 0.00 0.00       | % N000W #          |
| 001                                                                                                                                                                                                  | 4.4   | 0.312 | 0.329 | 0.95  | -0.435 | 0.01            | 0.0   | 0.0   | 0.0             | 77.1            | 25.0 | 0.0    | 0.0    | 0.0              | 0.0             | 0.25 0.25 0.25       | % N025W #          |
| 002                                                                                                                                                                                                  | 18.4  | 0.312 | 0.329 | 0.95  | -0.435 | 0.01            | 0.0   | 0.0   | 0.0             | 57.4            | 50.0 | 0.0    | 0.0    | 0.0              | 0.0             | 0.50 0.50 0.50       | % N050W #          |
| 003                                                                                                                                                                                                  | 48.2  | 0.312 | 0.329 | 0.95  | -0.435 | 0.01            | 0.0   | 0.0   | 0.0             | 22.9            | 75.0 | 0.0    | 0.0    | 0.0              | 0.0             | 0.75 0.75 0.75       | % N075W #          |
| 004                                                                                                                                                                                                  | 100.0 | 0.312 | 0.329 | 0.95  | -0.435 | 0.01            | 0.0   | 0.0   | 0.0             | 100.0           | 0.0  | 0.0    | 0.0    | 0.0              | 0.0             | 1.00 1.00 1.00       | % N100W #          |

| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w,10</sub> =100, Y <sub>m</sub> =520_770, LINYAB-Daten        |                                 |                  |                  |                  |                 |        |         |                 |                                 |                                 |      |  |   | % |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|------------------|------------------|-----------------|--------|---------|-----------------|---------------------------------|---------------------------------|------|--|---|---|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                           | i <sub>2</sub> , λ <sub>2</sub> | Y <sub>100</sub> | A <sub>100</sub> | B <sub>100</sub> | C <sub>AB</sub> | a      | b       | h <sub>AB</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  | % |   |
| 0 405                                                                                                                                     | 31 556                          | 56.57            | -21.89           | -18.32           | 28.54           | 0.5611 | -0.7532 | 219.9           | 15 476                          | 37 585                          | Cm   |  | % |   |
| 6 435                                                                                                                                     | 31 557                          | 57.41            | -26.44           | -8.79            | 27.86           | 0.4876 | -0.5825 | 198.4           | 16 480                          | 44 621                          |      |  | % |   |
| 10 450                                                                                                                                    | 31 559                          | 57.53            | -32.48           | 6.09             | 33.05           | 0.3834 | -0.3234 | 169.3           | 18 491                          | -1 491c                         |      |  | % |   |
| 11 460                                                                                                                                    | 32 562                          | 59.27            | -33.9            | 10.52            | 35.5            | 0.3761 | -0.2517 | 162.7           | 19 498                          | -1 498c                         |      |  | % |   |
| 12 465                                                                                                                                    | 33 565                          | 60.91            | -34.93           | 14.56            | 37.84           | 0.3747 | -0.1903 | 157.3           | 21 506                          | -1 506c                         |      |  | % |   |
| 14 470                                                                                                                                    | 34 570                          | 63.07            | -35.18           | 20.67            | 40.8            | 0.3903 | -0.1016 | 149.5           | 24 522                          | -1 522c                         |      |  | % |   |
| 15 475                                                                                                                                    | 35 579                          | 68.64            | -33.55           | 24.85            | 41.75           | 0.4593 | -0.0672 | 143.4           | 26 533                          | -1 533c                         | Gm   |  | % |   |
| 16 480                                                                                                                                    | 41 606                          | 81.94            | -23.65           | 31.88            | 39.7            | 0.6594 | -0.0401 | 126.5           | 30 550                          | -1 550c                         |      |  | % |   |
| 16 485                                                                                                                                    | -1 484c                         | 92.3             | -10.45           | 36.33            | 37.8            | 0.8348 | -0.0356 | 106.0           | 32 560                          | 10 454                          |      |  | % |   |
| 18 490                                                                                                                                    | -1 490c                         | 89.06            | -7.57            | 36.55            | 37.33           | 0.863  | -0.0188 | 101.7           | 32 562                          | 11 459                          | max  |  | % |   |
| 19 495                                                                                                                                    | -1 495c                         | 87.05            | -5.68            | 36.18            | 36.62           | 0.8828 | -0.0136 | 98.9            | 32 563                          | 12 461                          |      |  | % |   |
| 19 500                                                                                                                                    | -1 499c                         | 87.05            | -5.68            | 36.18            | 36.62           | 0.8828 | -0.0136 | 98.9            | 32 563                          | 12 461                          |      |  | % |   |
| 22 510                                                                                                                                    | -1 510c                         | 79.1             | 1.43             | 33.55            | 33.58           | 0.9662 | -0.0051 | 87.5            | 33 567                          | 13 466                          |      |  | % |   |
| 23 520                                                                                                                                    | -1 519c                         | 75.81            | 4.11             | 32.27            | 32.53           | 1.0024 | -0.0036 | 82.7            | 33 568                          | 13 468                          | Ym   |  | % |   |
| 26 530                                                                                                                                    | -1 530c                         | 64.17            | 12.31            | 27.48            | 30.11           | 1.14   | -0.001  | 65.8            | 34 573                          | 14 472                          |      |  | % |   |
| 27 540                                                                                                                                    | -1 539c                         | 59.9             | 14.81            | 25.68            | 29.65           | 1.1955 | -0.0005 | 60.0            | 35 576                          | 14 473                          |      |  | % |   |
| 28 545                                                                                                                                    | -1 544c                         | 55.54            | 17.09            | 23.83            | 29.32           | 1.2559 | -0.0002 | 54.3            | 35 578                          | 14 474                          |      |  | % |   |
| 29 550                                                                                                                                    | -1 549c                         | 51.12            | 19.09            | 21.94            | 29.08           | 1.3215 | -0.0001 | 48.9            | 36 580                          | 15 475                          |      |  | % |   |
| 31 555                                                                                                                                    | -1 555c                         | 42.37            | 21.98            | 18.19            | 28.53           | 1.4668 | 0.0     | 39.6            | 37 586                          | 15 476                          |      |  | % |   |
| 32 560                                                                                                                                    | 10 451                          | 40.04            | 32.52            | -6.18            | 33.11           | 1.7604 | -0.5838 | 349.2           | -1 492c                         | 18 492                          |      |  | % |   |
| 380                                                                                                                                       | 770                             | 100.0            | 0.0              | 0.0              | 0.01            | 0.9481 | -0.4293 | 0.0             |                                 |                                 |      |  | % |   |
| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w,10</sub> =100, Y <sub>m</sub> =770_520, LINYAB komplementär |                                 |                  |                  |                  |                 |        |         |                 |                                 |                                 |      |  |   | % |
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                           | i <sub>2</sub> , λ <sub>2</sub> | Y <sub>100</sub> | A <sub>100</sub> | B <sub>100</sub> | C <sub>AB</sub> | a      | b       | h <sub>AB</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  | % |   |
| 31 556                                                                                                                                    | 0 405                           | 43.42            | 21.89            | 18.32            | 28.54           | 1.4522 | -0.0074 | 39.9            | 37 585                          | 15 476                          | Rm   |  | % |   |
| 31 557                                                                                                                                    | 6 435                           | 42.58            | 26.44            | 8.79             | 27.86           | 1.5691 | -0.2226 | 18.4            | 44 621                          | 16 480                          |      |  | % |   |
| 31 559                                                                                                                                    | 10 450                          | 42.46            | 32.48            | -6.09            | 33.05           | 1.713  | -0.5727 | 349.3           | -1 491c                         | 18 491                          |      |  | % |   |
| 32 562                                                                                                                                    | 11 460                          | 40.72            | 33.9             | -10.52           | 35.5            | 1.7807 | -0.6879 | 342.7           | -1 498c                         | 19 498                          |      |  | % |   |
| 33 565                                                                                                                                    | 12 465                          | 39.08            | 34.93            | -14.56           | 37.84           | 1.8419 | -0.8019 | 337.3           | -1 506c                         | 21 506                          |      |  | % |   |
| 34 570                                                                                                                                    | 14 470                          | 36.92            | 35.18            | -20.67           | 40.8            | 1.901  | -0.9891 | 329.5           | -1 522c                         | 24 522                          |      |  | % |   |
| 35 579                                                                                                                                    | 15 475                          | 31.35            | 33.55            | -24.85           | 41.75           | 2.0184 | -1.2222 | 323.4           | -1 533c                         | 26 533                          | Mm   |  | % |   |
| 41 606                                                                                                                                    | 16 480                          | 18.05            | 23.65            | -31.88           | 39.7            | 2.2587 | -2.1959 | 306.5           | -1 550c                         | 30 550                          |      |  | % |   |
| -1 484c                                                                                                                                   | 16 485                          | 7.69             | 10.45            | -36.33           | 37.8            | 2.306  | -5.1484 | 286.0           | 10 454                          | 32 560                          |      |  | % |   |
| -1 490c                                                                                                                                   | 18 490                          | 10.93            | 7.57             | -36.55           | 37.33           | 1.6407 | -3.7725 | 281.7           | 11 459                          | 32 562                          | min  |  | % |   |
| -1 495c                                                                                                                                   | 19 495                          | 12.94            | 5.68             | -36.18           | 36.62           | 1.3873 | -3.2239 | 278.9           | 12 461                          | 32 563                          |      |  | % |   |
| -1 499c                                                                                                                                   | 19 500                          | 12.94            | 5.68             | -36.18           | 36.62           | 1.3873 | -3.2239 | 278.9           | 12 461                          | 32 563                          |      |  | % |   |
| -1 510c                                                                                                                                   | 22 510                          | 20.89            | -1.43            | -33.55           | 33.58           | 0.8795 | -2.035  | 267.5           | 13 466                          | 33 567                          |      |  | % |   |
| -1 519c                                                                                                                                   | 23 520                          | 24.18            | -4.12            | -32.27           | 32.53           | 0.7777 | -1.7639 | 262.7           | 13 468                          | 33 568                          | Bm   |  | % |   |
| -1 530c                                                                                                                                   | 26 530                          | 35.82            | -12.31           | -27.48           | 30.11           | 0.6044 | -1.1965 | 245.8           | 14 472                          | 34 573                          |      |  | % |   |
| -1 539c                                                                                                                                   | 27 540                          | 40.09            | -14.81           | -25.68           | 29.65           | 0.5785 | -1.0699 | 240.0           | 14 473                          | 35 576                          |      |  | % |   |
| -1 544c                                                                                                                                   | 28 545                          | 44.45            | -17.09           | -23.83           | 29.32           | 0.5635 | -0.9653 | 234.3           | 14 474                          | 35 578                          |      |  | % |   |
| -1 549c                                                                                                                                   | 29 550                          | 48.87            | -19.09           | -21.94           | 29.08           | 0.5575 | -0.8782 | 228.9           | 15 475                          | 36 580                          |      |  | % |   |
| -1 555c                                                                                                                                   | 31 555                          | 57.62            | -21.98           | -18.19           | 28.53           | 0.5667 | -0.745  | 219.6           | 15 476                          | 37 586                          |      |  | % |   |
| 10 451                                                                                                                                    | 32 560                          | 59.95            | -32.52           | 6.18             | 33.11           | 0.4056 | -0.3261 | 169.2           | 18 492                          | -1 492c                         |      |  | % |   |
| 380                                                                                                                                       | 770                             | 100.0            | 0.0              | 0.0              | 0.01            | 0.9481 | -0.4293 | 0.0             |                                 |                                 |      |  | % |   |
| 0-001000-L0                                                                                                                               |                                 |                  |                  |                  |                 |        |         |                 |                                 | VG310-7X                        |      |  |   |   |

| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w,10</sub> =100, Y <sub>m</sub> =520_770, LINYAB-Daten |                                 |                  |                  |                  |                 |        |         |                 |                                 |                                 |      |  |  |  | % |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|------------------|------------------|-----------------|--------|---------|-----------------|---------------------------------|---------------------------------|------|--|--|--|---|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                    | i <sub>2</sub> , λ <sub>2</sub> | Y <sub>100</sub> | A <sub>100</sub> | B <sub>100</sub> | C <sub>AB</sub> | a      | b       | h <sub>AB</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  |  |  | % |
| 0 405                                                                                                                              | 31 556                          | 56.57            | -21.89           | -18.32           | 28.54           | 0.5611 | -0.7532 | 219.9           | 15 476                          | 37 585                          | Cm   |  |  |  | % |
| 6 435                                                                                                                              | 31 557                          | 57.41            | -26.44           | -8.79            | 27.86           | 0.4876 | -0.5825 | 198.4           | 16 480                          | 44 621                          |      |  |  |  | % |
| 10 450                                                                                                                             | 31 559                          | 57.53            | -32.48           | 6.09             | 33.05           | 0.3834 | -0.3234 | 169.3           | 18 491                          | -1 491c                         |      |  |  |  | % |
| 11 460                                                                                                                             | 32 562                          | 59.27            | -33.9            | 10.52            | 35.5            | 0.3761 | -0.2517 | 162.7           | 19 498                          | -1 498c                         |      |  |  |  | % |
| 12 465                                                                                                                             | 33 565                          | 60.91            | -34.93           | 14.56            | 37.84           | 0.3747 | -0.1903 | 157.3           | 21 506                          | -1 506c                         |      |  |  |  | % |
| 14 470                                                                                                                             | 34 570                          | 63.07            | -35.18           | 20.67            | 40.8            | 0.3903 | -0.1016 | 149.5           | 24 522                          | -1 522c                         |      |  |  |  | % |
| 15 475                                                                                                                             | 35 579                          | 68.64            | -33.55           | 24.85            | 41.75           | 0.4593 | -0.0672 | 143.4           | 26 533                          | -1 533c                         | Gm   |  |  |  | % |
| 16 480                                                                                                                             | 41 606                          | 81.94            | -23.65           | 31.88            | 39.7            | 0.6594 | -0.0401 | 126.5           | 30 550                          | -1 550c                         |      |  |  |  | % |
| 16 485                                                                                                                             | -1 484c                         | 92.3             | -10.45           | 36.33            | 37.8            | 0.8348 | -0.0356 | 106.0           | 32 560                          | 10 454                          |      |  |  |  | % |
| 18 490                                                                                                                             | -1 490c                         | 89.06            | -7.57            | 36.55            | 37.33           | 0.863  | -0.0188 | 101.7           | 32 562                          | 11 459                          | max  |  |  |  | % |
| 19 495                                                                                                                             | -1 495c                         | 87.05            | -5.68            | 36.18            | 36.62           | 0.8828 | -0.0136 | 98.9            | 32 563                          | 12 461                          |      |  |  |  | % |
| 19 500                                                                                                                             | -1 499c                         | 87.05            | -5.68            | 36.18            | 36.62           | 0.8828 | -0.0136 | 98.9            | 32 563                          | 12 461                          |      |  |  |  | % |
| 22 510                                                                                                                             | -1 510c                         | 79.1             | 1.43             | 33.55            | 33.58           | 0.9662 | -0.0051 | 87.5            | 33 567                          | 13 466                          |      |  |  |  | % |
| 23 520                                                                                                                             | -1 519c                         | 75.81            | 4.11             | 32.27            | 32.53           | 1.0024 | -0.0036 | 82.7            | 33 568                          | 13 468                          | Ym   |  |  |  | % |
| 26 530                                                                                                                             | -1 530c                         | 64.17            | 12.31            | 27.48            | 30.11           | 1.14   | -0.001  | 65.8            | 34 573                          | 14 472                          |      |  |  |  | % |
| 27 540                                                                                                                             | -1 539c                         | 59.9             | 14.81            | 25.68            | 29.65           | 1.1955 | -0.0005 | 60.0            | 35 576                          | 14 473                          |      |  |  |  | % |
| 28 545                                                                                                                             | -1 544c                         | 55.54            | 17.09            | 23.83            | 29.32           | 1.2559 | -0.0002 | 54.3            | 35 578                          | 14 474                          |      |  |  |  | % |
| 29 550                                                                                                                             | -1 549c                         | 51.12            | 19.09            | 21.94            | 29.08           | 1.3215 | -0.0001 | 48.9            | 36 580                          | 15 475                          |      |  |  |  | % |
| 31 555                                                                                                                             | -1 555c                         | 42.37            | 21.98            | 18.19            | 28.53           | 1.4668 | 0.0     | 39.6            | 37 586                          | 15 476                          |      |  |  |  | % |
| 32 560                                                                                                                             | 10 451                          | 40.04            | 32.52            | -6.18            | 33.11           | 1.7604 | -0.5838 | 349.2           | -1 492c                         | 18 492                          |      |  |  |  | % |
| 380                                                                                                                                | 770                             | 100.0            | 0.0              | 0.0              | 0.01            | 0.9481 | -0.4293 | 0.0             |                                 |                                 |      |  |  |  | % |

| rgb* <sub>e,AB</sub> und CIE-Daten eines Elementar-Bunttonkreises nach CIE R1-47 für Ostwald-Farben für CIE-Lichtart D65                                                                                          |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                         |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|--------------------|------------------|------------------|------------------|---------------------|--------------------|-------------------------|-----------------------|
| X <sub>xy</sub> , abc <sub>AB</sub> , ABC <sub>AB</sub> , LabC* <sub>ab</sub> h <sub>ab</sub> -Daten für relative Stufung des Elementarbunttons h <sub>AB</sub> von L <sub>INYAB</sub> für CIE-10-Grad Beobachter |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                         |                       |
| Elementar-Bunttonkreis mit 4 Ziel-Elementar-Bunttonwinkeln: h <sub>AB</sub> = 18.2, 86.3, 156.2, 260.1 von L <sub>INYAB</sub> und 16 Ziel-Bunttonwinkeln:                                                         |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                         |                       |
| 18.2 35.2 52.2 69.2 86.3 103.7 121.2 138.7 156.2 182.2 208.1 234.1 260.1 289.6 319.1 348.7                                                                                                                        |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                         |                       |
| L <sub>INYAB</sub> -Daten CIE-Testfarben 9 (R): 10.8 8.7 2.8, 10 (Y): 55.9 1.2 19.6, 11 (G): 20.4 -6.8 3.0, 12 (B): 7.8 -1.2 -7.2                                                                                 |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                         |                       |
| no <sub>AB</sub>                                                                                                                                                                                                  | Y <sub>100</sub> | x <sub>10</sub> | y <sub>10</sub> | a <sub>10</sub> | b <sub>10</sub> | C <sub>AB,10</sub> | A <sub>10</sub> | B <sub>10</sub> | C <sub>AB,10</sub> | h <sub>AB,10</sub> | L* <sub>10</sub> | a* <sub>10</sub> | b* <sub>10</sub> | C* <sub>ab,10</sub> | h <sub>ab,10</sub> | rgb* <sub>e,AB,10</sub> | Code <sub>AB,10</sub> |
| 000                                                                                                                                                                                                               | 40.6             | 0.49            | 0.303           | 1.617           | -0.273          | 0.687              | 27.1            | 6.3             | 27.9               | 13.1               | 69.9             | 72.1             | 20.7             | 75.0                | 16.0               | 1.00 0.00 0.00          | % R00Y #              |
| 001                                                                                                                                                                                                               | 41.9             | 0.57            | 0.381           | 1.496           | -0.049          | 0.667              | 22.9            | 15.9            | 27.9               | 34.6               | 70.8             | 61.4             | 76.6             | 98.2                | 51.2               | 1.00 0.25 0.00          | % R25Y #              |
| 002                                                                                                                                                                                                               | 54.0             | 0.56            | 0.438           | 1.277           | 0.0             | 0.541              | 17.8            | 23.2            | 29.2               | 52.4               | 78.5             | 42.6             | 134.9            | 141.5               | 72.4               | 1.00 0.50 0.00          | % R50Y #              |
| 003                                                                                                                                                                                                               | 66.4             | 0.525           | 0.473           | 1.109           | -0.001          | 0.457              | 10.7            | 28.4            | 30.3               | 69.2               | 85.2             | 23.5             | 142.9            | 144.8               | 80.6               | 1.00 0.75 0.00          | % R75Y #              |
| 004                                                                                                                                                                                                               | 78.3             | 0.491           | 0.503           | 0.975           | -0.004          | 0.426              | 2.1             | 33.2            | 33.3               | 86.2               | 90.9             | 4.4              | 143.6            | 143.6               | 88.2               | 1.00 1.00 0.00          | % Y00G #              |
| 005                                                                                                                                                                                                               | 91.3             | 0.445           | 0.519           | 0.857           | -0.027          | 0.412              | -8.2            | 36.7            | 37.6               | 102.6              | 96.5             | -15.9            | 116.6            | 117.7               | 97.7               | 0.75 1.00 0.00          | % Y25G #              |
| 006                                                                                                                                                                                                               | 85.3             | 0.394           | 0.552           | 0.713           | -0.038          | 0.455              | -20.0           | 33.3            | 38.8               | 120.9              | 94.0             | -42.8            | 104.7            | 113.1               | 112.2              | 0.50 1.00 0.00          | % Y50G #              |
| 007                                                                                                                                                                                                               | 72.0             | 0.309           | 0.603           | 0.511           | -0.057          | 0.573              | -31.4           | 26.7            | 41.2               | 139.5              | 87.9             | -83.2            | 87.3             | 120.6               | 133.6              | 0.25 1.00 0.00          | % Y75G #              |
| 008                                                                                                                                                                                                               | 42.1             | 0.501           | 0.319           | 1.567           | -0.224          | 0.652              | 26.0            | 8.6             | 27.4               | 18.3               | 70.9             | 68.3             | 29.1             | 74.2                | 23.1               | 0.00 1.00 0.00          | % G00B #              |
| 009                                                                                                                                                                                                               | 41.7             | 0.484           | 0.303           | 1.596           | -0.279          | 0.665              | 27.0            | 6.2             | 27.8               | 13.0               | 70.7             | 70.9             | 19.9             | 73.6                | 15.6               | 0.00 1.00 0.50          | % G25B #              |
| 010                                                                                                                                                                                                               | 41.4             | 0.469           | 0.288           | 1.626           | -0.334          | 0.684              | 28.1            | 3.9             | 28.3               | 7.9                | 70.5             | 73.4             | 11.8             | 74.3                | 9.1                | 0.00 1.00 1.00          | % G50B #              |
| 011                                                                                                                                                                                                               | 41.1             | 0.456           | 0.275           | 1.655           | -0.389          | 0.708              | 29.1            | 1.6             | 29.1               | 3.2                | 70.2             | 75.8             | 4.7              | 76.0                | 3.6                | 0.00 0.50 1.00          | % G75B #              |
| 012                                                                                                                                                                                                               | 40.8             | 0.444           | 0.264           | 1.683           | -0.441          | 0.735              | 30.0            | -0.4            | 30.0               | 359.0              | 70.0             | 78.2             | -1.3             | 78.2                | 359.0              | 0.00 0.00 1.00          | % B00R #              |
| 013                                                                                                                                                                                                               | 40.5             | 0.433           | 0.252           | 1.712           | -0.496          | 0.767              | 31.0            | -2.7            | 31.1               | 355.0              | 69.8             | 80.6             | -7.2             | 80.9                | 354.8              | 0.50 0.50 1.00          | % B25R #              |
| 014                                                                                                                                                                                                               | 40.2             | 0.424           | 0.243           | 1.738           | -0.544          | 0.798              | 31.8            | -4.6            | 32.1               | 351.7              | 69.6             | 82.7             | -12.1            | 83.5                | 351.6              | 1.00 0.00 1.00          | % B50R #              |
| 015                                                                                                                                                                                                               | 40.0             | 0.417           | 0.237           | 1.76            | -0.583          | 0.826              | 32.5            | -6.1            | 33.0               | 349.2              | 69.5             | 84.3             | -15.8            | 85.8                | 349.3              | 1.00 0.00 0.50          | % B75R #              |
| 016                                                                                                                                                                                                               | 40.6             | 0.49            | 0.303           | 1.617           | -0.273          | 0.687              | 27.1            | 6.3             | 27.9               | 13.1               | 69.9             | 72.1             | 20.7             | 75.0                | 16.0               | 1.00 0.00 0.00          | % R00Y #              |
| CIEXYZ-Daten von CIE-Testfarben 9 (R): 19.0 10.8 4.3, 10 (Y): 54.3 55.9 11.0, 11 (G): 12.5 20.4 14.4, 12 (B): 6.1 7.8 26.5                                                                                        |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                         |                       |
| 5-stufige gleichabständige Graureihe mit Ziel-Helligkeit: L* = 0.0, 25.0, 50.0, 75.0, 100.0                                                                                                                       |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                         |                       |
| 000                                                                                                                                                                                                               | 0.0              | 0.0             | 0.0             | 0.0             | 0.0             | 0.0                | 1.04            | 0.0             | 0.0                | 0.0                | 0.0              | 0.0              | 0.0              | 0.0                 | 0.0                | 0.00 0.00 0.00          | % N000W #             |
| 001                                                                                                                                                                                                               | 4.4              | 0.313           | 0.33            | 0.948           | -0.429          | 0.01               | 0.0             | 0.0             | 0.0                | 77.0               | 25.0             | 0.0              | 0.0              | 0.0                 | 0.0                | 0.25 0.25 0.25          | % N025W #             |
| 002                                                                                                                                                                                                               | 18.4             | 0.313           | 0.33            | 0.948           | -0.429          | 0.01               | 0.0             | 0.0             | 0.0                | 55.3               | 50.0             | 0.0              | 0.0              | 0.0                 | 0.0                | 0.50 0.50 0.50          | % N050W #             |
| 003                                                                                                                                                                                                               | 48.2             | 0.313           | 0.33            | 0.948           | -0.429          | 0.01               | 0.0             | 0.0             | 0.0                | 23.1               | 75.0             | 0.0              | 0.0              | 0.0                 | 0.0                | 0.75 0.75 0.75          | % N075W #             |
| 004                                                                                                                                                                                                               | 100.0            | 0.313           | 0.33            | 0.948           | -0.429          | 0.01               | 0.0             | 0.0             | 0.0                | 0.0                | 100.0            | 0.0              | 0.0              | 0.0                 | 0.0                | 1.00 1.00 1.00          | % N100W #             |

| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w</sub> =100, Y <sub>m</sub> =520_770, CIELAB-Daten         |                                 |       |         |         |                  |        |         |                 |                                 |                                 |      |   | % |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------|---------|---------|------------------|--------|---------|-----------------|---------------------------------|---------------------------------|------|---|---|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                         | i <sub>2</sub> , λ <sub>2</sub> | L*100 | a*100   | b*100   | C* <sub>ab</sub> | a'     | b'      | h <sub>ab</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code | % |   |
| 0 405                                                                                                                                   | 32 561                          | 80.85 | -67.55  | -32.54  | 74.98            | 0.1805 | -0.1029 | 205.7           | 16 483                          | 37 589                          | Cm   | % |   |
| 6 435                                                                                                                                   | 32 562                          | 81.18 | -81.89  | -19.25  | 84.12            | 0.1732 | -0.096  | 193.2           | 17 486                          | 42 610                          |      | % |   |
| 10 450                                                                                                                                  | 32 563                          | 81.52 | -109.06 | 11.43   | 109.66           | 0.1595 | -0.0803 | 174.0           | 19 496                          | -1 496c                         |      | % |   |
| 12 460                                                                                                                                  | 33 565                          | 82.01 | -120.74 | 33.26   | 125.23           | 0.1538 | -0.0692 | 164.5           | 21 505                          | -1 505c                         |      | % |   |
| 12 465                                                                                                                                  | 33 567                          | 82.73 | -118.76 | 34.5    | 123.67           | 0.1552 | -0.0687 | 163.8           | 21 506                          | -1 506c                         |      | % |   |
| 14 470                                                                                                                                  | 33 569                          | 83.3  | -123.47 | 57.53   | 136.22           | 0.1532 | -0.0572 | 155.0           | 24 520                          | -1 520c                         |      | % |   |
| 15 475                                                                                                                                  | 34 573                          | 84.63 | -118.73 | 70.39   | 138.03           | 0.1564 | -0.0512 | 149.3           | 25 528                          | -1 528c                         | Gm   | % |   |
| 16 480                                                                                                                                  | 36 580                          | 86.98 | -107.21 | 84.2    | 136.33           | 0.1633 | -0.0452 | 141.8           | 27 537                          | -1 537c                         |      | % |   |
| 17 485                                                                                                                                  | 39 595                          | 91.12 | -80.53  | 100.07  | 128.45           | 0.1778 | -0.0394 | 128.8           | 29 548                          | -1 548c                         |      | % |   |
| 18 490                                                                                                                                  | -1 490c                         | 97.55 | -23.15  | 119.05  | 121.28           | 0.2052 | -0.0337 | 101.0           | 33 565                          | 11 459                          | max  | % |   |
| 19 495                                                                                                                                  | -1 495c                         | 96.94 | -20.63  | 125.42  | 127.1            | 0.2062 | -0.0306 | 99.3            | 33 566                          | 12 462                          |      | % |   |
| 20 500                                                                                                                                  | -1 500c                         | 96.17 | -17.33  | 131.15  | 132.29           | 0.2076 | -0.0277 | 97.5            | 33 567                          | 12 464                          |      | % |   |
| 22 510                                                                                                                                  | -1 510c                         | 94.0  | -8.24   | 140.17  | 140.41           | 0.2116 | -0.0224 | 93.3            | 33 569                          | 13 469                          |      | % |   |
| 23 520                                                                                                                                  | -1 519c                         | 92.57 | -2.53   | 142.99  | 143.01           | 0.2142 | -0.0202 | 91.0            | 34 570                          | 14 471                          | Ym   | % |   |
| 25 530                                                                                                                                  | -1 529c                         | 88.94 | 10.79   | 144.39  | 144.79           | 0.2205 | -0.0165 | 85.7            | 34 573                          | 15 475                          |      | % |   |
| 27 540                                                                                                                                  | -1 539c                         | 84.43 | 25.54   | 141.4   | 143.69           | 0.2281 | -0.0134 | 79.7            | 35 577                          | 15 478                          |      | % |   |
| 28 545                                                                                                                                  | -1 544c                         | 81.91 | 33.05   | 138.34  | 142.24           | 0.2322 | -0.0121 | 76.5            | 35 579                          | 15 479                          |      | % |   |
| 29 550                                                                                                                                  | -1 549c                         | 79.2  | 40.58   | 134.51  | 140.5            | 0.2367 | -0.0111 | 73.2            | 36 582                          | 16 480                          |      | % |   |
| 30 555                                                                                                                                  | -1 554c                         | 76.32 | 47.96   | 130.1   | 138.66           | 0.2413 | -0.0103 | 69.7            | 36 584                          | 16 481                          |      | % |   |
| 32 560                                                                                                                                  | -1 560c                         | 70.18 | 61.63   | 120.13  | 135.02           | 0.2511 | -0.0093 | 62.8            | 37 589                          | 16 483                          |      | % |   |
| 380                                                                                                                                     | 770                             | 100.0 | 0.0     | 0.0     | 0.0              | 0.2154 | -0.0861 | 0.0             |                                 |                                 |      | % |   |
| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w</sub> =100, Y <sub>m</sub> =770_520, CIELAB komplementär% |                                 |       |         |         |                  |        |         |                 |                                 |                                 |      |   |   |
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                         | i <sub>2</sub> , λ <sub>2</sub> | L*100 | a*100   | b*100   | C* <sub>ab</sub> | a'     | b'      | h <sub>ab</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code | % |   |
| 32 561                                                                                                                                  | 0 405                           | 70.73 | 60.88   | 110.08  | 125.79           | 0.2505 | -0.022  | 61.0            | 37 589                          | 16 483                          | Rm   | % |   |
| 32 562                                                                                                                                  | 6 435                           | 70.32 | 70.58   | 34.83   | 78.71            | 0.2562 | -0.0659 | 26.2            | 42 610                          | 17 486                          |      | % |   |
| 32 563                                                                                                                                  | 10 450                          | 69.88 | 85.85   | -12.65  | 86.78            | 0.2653 | -0.0935 | 351.6           | -1 496c                         | 19 496                          |      | % |   |
| 33 565                                                                                                                                  | 12 460                          | 69.24 | 92.89   | -29.55  | 97.48            | 0.2698 | -0.1035 | 342.3           | -1 505c                         | 21 505                          |      | % |   |
| 33 567                                                                                                                                  | 12 465                          | 68.27 | 94.84   | -31.22  | 99.85            | 0.2716 | -0.1046 | 341.7           | -1 506c                         | 21 506                          |      | % |   |
| 33 569                                                                                                                                  | 14 470                          | 67.49 | 99.24   | -42.98  | 108.15           | 0.2748 | -0.1119 | 336.5           | -1 520c                         | 24 520                          |      | % |   |
| 34 573                                                                                                                                  | 15 475                          | 65.52 | 102.87  | -49.85  | 114.31           | 0.2784 | -0.1167 | 334.1           | -1 528c                         | 25 528                          | Mm   | % |   |
| 36 580                                                                                                                                  | 16 480                          | 61.69 | 107.96  | -59.02  | 123.05           | 0.2848 | -0.1241 | 331.3           | -1 537c                         | 27 537                          |      | % |   |
| 39 595                                                                                                                                  | 17 485                          | 53.22 | 112.99  | -75.47  | 135.88           | 0.297  | -0.1406 | 326.2           | -1 548c                         | 29 548                          |      | % |   |
| -1 490c                                                                                                                                 | 18 490                          | 29.91 | 89.01   | -117.0  | 147.01           | 0.3124 | -0.2136 | 307.2           | 11 459                          | 33 565                          | min  | % |   |
| -1 495c                                                                                                                                 | 19 495                          | 33.36 | 74.42   | -112.09 | 134.55           | 0.2908 | -0.1997 | 303.5           | 12 462                          | 33 566                          |      | % |   |
| -1 500c                                                                                                                                 | 20 500                          | 37.09 | 58.44   | -106.44 | 121.43           | 0.2704 | -0.1864 | 298.7           | 12 464                          | 33 567                          |      | % |   |
| -1 510c                                                                                                                                 | 22 510                          | 45.26 | 23.9    | -93.37  | 96.38            | 0.2349 | -0.1623 | 284.3           | 13 469                          | 33 569                          |      | % |   |
| -1 519c                                                                                                                                 | 23 520                          | 49.52 | 6.76    | -86.32  | 86.58            | 0.2205 | -0.152  | 274.4           | 14 471                          | 34 570                          | Bm   | % |   |
| -1 529c                                                                                                                                 | 25 530                          | 58.0  | -23.98  | -72.06  | 75.95            | 0.1992 | -0.1348 | 251.5           | 15 475                          | 34 573                          |      | % |   |
| -1 539c                                                                                                                                 | 27 540                          | 65.83 | -46.7   | -58.75  | 75.05            | 0.1868 | -0.122  | 231.5           | 15 478                          | 35 577                          |      | % |   |
| -1 544c                                                                                                                                 | 28 545                          | 69.38 | -54.68  | -52.68  | 75.93            | 0.1833 | -0.117  | 223.9           | 15 479                          | 35 579                          |      | % |   |
| -1 549c                                                                                                                                 | 29 550                          | 72.72 | -60.59  | -46.95  | 76.65            | 0.1812 | -0.1126 | 217.7           | 16 480                          | 36 582                          |      | % |   |
| -1 554c                                                                                                                                 | 30 555                          | 75.82 | -64.5   | -41.62  | 76.77            | 0.1803 | -0.1088 | 212.8           | 16 481                          | 36 584                          |      | % |   |
| -1 560c                                                                                                                                 | 32 560                          | 81.29 | -66.96  | -32.22  | 74.32            | 0.181  | -0.1027 | 205.6           | 16 483                          | 37 589                          |      | % |   |
| 380                                                                                                                                     | 770                             | 100.0 | 0.0     | 0.0     | 0.0              | 0.2154 | -0.0861 | 0.0             |                                 |                                 |      | % |   |

| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w</sub> =100, Y <sub>m</sub> =520_770, CIELAB-Daten |                                 |                   |                   |                   |                  |        |         |                 |                                 |                                 |      |   |  | % |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------|-------------------|-------------------|------------------|--------|---------|-----------------|---------------------------------|---------------------------------|------|---|--|---|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                 | i <sub>2</sub> , λ <sub>2</sub> | L* <sub>100</sub> | a* <sub>100</sub> | b* <sub>100</sub> | C* <sub>ab</sub> | a'     | b'      | h <sub>ab</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code | % |  |   |
| 0 405                                                                                                                           | 32 561                          | 80.85             | -67.55            | -32.54            | 74.98            | 0.1805 | -0.1029 | 205.7           | 16 483                          | 37 589                          | Cm   | % |  |   |
| 6 435                                                                                                                           | 32 562                          | 81.18             | -81.89            | -19.25            | 84.12            | 0.1732 | -0.096  | 193.2           | 17 486                          | 42 610                          |      | % |  |   |
| 10 450                                                                                                                          | 32 563                          | 81.52             | -109.06           | 11.43             | 109.66           | 0.1595 | -0.0803 | 174.0           | 19 496                          | -1 496c                         |      | % |  |   |
| 12 460                                                                                                                          | 33 565                          | 82.01             | -120.74           | 33.26             | 125.23           | 0.1538 | -0.0692 | 164.5           | 21 505                          | -1 505c                         |      | % |  |   |
| 12 465                                                                                                                          | 33 567                          | 82.73             | -118.76           | 34.5              | 123.67           | 0.1552 | -0.0687 | 163.8           | 21 506                          | -1 506c                         |      | % |  |   |
| 14 470                                                                                                                          | 33 569                          | 83.3              | -123.47           | 57.53             | 136.22           | 0.1532 | -0.0572 | 155.0           | 24 520                          | -1 520c                         |      | % |  |   |
| 15 475                                                                                                                          | 34 573                          | 84.63             | -118.73           | 70.39             | 138.03           | 0.1564 | -0.0512 | 149.3           | 25 528                          | -1 528c                         | Gm   | % |  |   |
| 16 480                                                                                                                          | 36 580                          | 86.98             | -107.21           | 84.2              | 136.33           | 0.1633 | -0.0452 | 141.8           | 27 537                          | -1 537c                         |      | % |  |   |
| 17 485                                                                                                                          | 39 595                          | 91.12             | -80.53            | 100.07            | 128.45           | 0.1778 | -0.0394 | 128.8           | 29 548                          | -1 548c                         |      | % |  |   |
| 18 490                                                                                                                          | -1 490c                         | 97.55             | -23.15            | 119.05            | 121.28           | 0.2052 | -0.0337 | 101.0           | 33 565                          | 11 459                          | max  | % |  |   |
| 19 495                                                                                                                          | -1 495c                         | 96.94             | -20.63            | 125.42            | 127.1            | 0.2062 | -0.0306 | 99.3            | 33 566                          | 12 462                          |      | % |  |   |
| 20 500                                                                                                                          | -1 500c                         | 96.17             | -17.33            | 131.15            | 132.29           | 0.2076 | -0.0277 | 97.5            | 33 567                          | 12 464                          |      | % |  |   |
| 22 510                                                                                                                          | -1 510c                         | 94.0              | -8.24             | 140.17            | 140.41           | 0.2116 | -0.0224 | 93.3            | 33 569                          | 13 469                          |      | % |  |   |
| 23 520                                                                                                                          | -1 519c                         | 92.57             | -2.53             | 142.99            | 143.01           | 0.2142 | -0.0202 | 91.0            | 34 570                          | 14 471                          | Ym   | % |  |   |
| 25 530                                                                                                                          | -1 529c                         | 88.94             | 10.79             | 144.39            | 144.79           | 0.2205 | -0.0165 | 85.7            | 34 573                          | 15 475                          |      | % |  |   |
| 27 540                                                                                                                          | -1 539c                         | 84.43             | 25.54             | 141.4             | 143.69           | 0.2281 | -0.0134 | 79.7            | 35 577                          | 15 478                          |      | % |  |   |
| 28 545                                                                                                                          | -1 544c                         | 81.91             | 33.05             | 138.34            | 142.24           | 0.2322 | -0.0121 | 76.5            | 35 579                          | 15 479                          |      | % |  |   |
| 29 550                                                                                                                          | -1 549c                         | 79.2              | 40.58             | 134.51            | 140.5            | 0.2367 | -0.0111 | 73.2            | 36 582                          | 16 480                          |      | % |  |   |
| 30 555                                                                                                                          | -1 554c                         | 76.32             | 47.96             | 130.1             | 138.66           | 0.2413 | -0.0103 | 69.7            | 36 584                          | 16 481                          |      | % |  |   |
| 32 560                                                                                                                          | -1 560c                         | 70.18             | 61.63             | 120.13            | 135.02           | 0.2511 | -0.0093 | 62.8            | 37 589                          | 16 483                          |      | % |  |   |
| 380                                                                                                                             | 770                             | 100.0             | 0.0               | 0.0               | 0.0              | 0.2154 | -0.0861 | 0.0             |                                 |                                 |      | % |  |   |

| rgb* <sub>e,ab</sub> - und CIE-Daten eines Elementar-Bunttonkreises nach CIE R1-47 für Ostwald-Farben für CIE-Lichtart D65                                                                        |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |      |       |   |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|--------|-----------------|-------|-------|-----------------|-----------------|------|--------|--------|------------------|-----------------|----------------------|--------------------|------|-------|---|--|--|--|--|
| X <sub>xy</sub> , abc <sub>AB</sub> , ABC <sub>AB</sub> LabC* <sub>ab</sub> h <sub>ab</sub> -Daten fü relative Stufung des Elementarbunttons h <sub>ab</sub> von CIELAB für CIE-2-Grad Beobachter |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |      |       |   |  |  |  |  |
| Elementar-Bunttonkreis mit 4 Ziel-Elementar-Bunttonwinkeln: h <sub>ab</sub> = 25.6, 92.4, 162.1, 271.5 von CIELAB und 16 Ziel-Bunttonwinkeln:                                                     |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |      |       |   |  |  |  |  |
| 25.6 42.3 59.0 75.7 92.4 109.8 127.2 144.7 162.1 189.4 216.8 244.1 271.5 300.0 328.5 357.1                                                                                                        |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |      |       |   |  |  |  |  |
| CIELAB-Daten CIE-Testfarben 9 (R): 40.0 58.9 28.3, 10 (Y): 81.3 -3.0 71.8, 11 (G): 52.2 -42.3 13.6, 12 (B): 30.5 1.2 -46.3                                                                        |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |      |       |   |  |  |  |  |
| no. <sub>ab</sub>                                                                                                                                                                                 | Y     | x     | y     | a     | b      | c <sub>AB</sub> | A     | B     | C <sub>AB</sub> | h <sub>AB</sub> | L*   | a*     | b*     | C* <sub>ab</sub> | h <sub>ab</sub> | rgb* <sub>e,ab</sub> | Code <sub>ab</sub> |      |       |   |  |  |  |  |
| 000                                                                                                                                                                                               | 41.2  | 0.516 | 0.321 | 1.603 | -0.201 | 0.693           | 26.9  | 9.6   | 28.5            | 19.7            | 70.3 | 70.8   | 33.7   | 78.4             | 25.4            | 1.00 0.00 0.00       | %                  | R00Y | #     |   |  |  |  |  |
| 001                                                                                                                                                                                               | 41.5  | 0.571 | 0.371 | 1.539 | -0.06  | 0.698           | 24.5  | 15.5  | 29.0            | 32.4            | 70.5 | 65.1   | 71.7   | 96.9             | 47.7            | 1.00 0.25 0.00       | %                  | R25Y | #     |   |  |  |  |  |
| 002                                                                                                                                                                                               | 41.7  | 0.593 | 0.396 | 1.497 | -0.01  | 0.693           | 22.8  | 17.7  | 28.9            | 37.8            | 70.7 | 61.2   | 106.6  | 122.9            | 60.1            | 1.00 0.50 0.00       | %                  | R50Y | #     |   |  |  |  |  |
| 003                                                                                                                                                                                               | 58.9  | 0.546 | 0.452 | 1.208 | -0.001 | 0.505           | 15.2  | 25.5  | 29.7            | 59.2            | 81.2 | 34.9   | 137.4  | 141.8            | 75.7            | 1.00 0.75 0.00       | %                  | R75Y | #     |   |  |  |  |  |
| 004                                                                                                                                                                                               | 84.1  | 0.473 | 0.517 | 0.913 | -0.006 | 0.43            | -3.0  | 36.0  | 36.2            | 94.8            | 93.5 | -6.1   | 141.7  | 141.9            | 92.4            | 1.00 1.00 0.00       | %                  | Y00G | #     |   |  |  |  |  |
| 005                                                                                                                                                                                               | 89.6  | 0.406 | 0.552 | 0.735 | -0.03  | 0.459           | -19.2 | 36.3  | 41.1            | 117.9           | 95.8 | -39.5  | 113.6  | 120.3            | 109.1           | 0.75 1.00 0.00       | %                  | Y25G | #     |   |  |  |  |  |
| 006                                                                                                                                                                                               | 79.6  | 0.332 | 0.605 | 0.549 | -0.04  | 0.562           | -31.9 | 31.4  | 44.7            | 135.4           | 91.5 | -77.3  | 101.1  | 127.3            | 127.3           | 0.50 1.00 0.00       | %                  | Y50G | #     |   |  |  |  |  |
| 007                                                                                                                                                                                               | 67.8  | 0.247 | 0.635 | 0.389 | -0.073 | 0.667           | -38.0 | 24.5  | 45.2            | 147.1           | 85.9 | -112.9 | 78.7   | 137.6            | 145.1           | 0.25 1.00 0.00       | %                  | Y75G | #     |   |  |  |  |  |
| 008                                                                                                                                                                                               | 61.8  | 0.189 | 0.536 | 0.353 | -0.203 | 0.64            | -36.9 | 14.3  | 39.6            | 158.7           | 82.8 | -119.6 | 38.1   | 125.5            | 162.3           | 0.00 1.00 0.00       | %                  | G00B | #     |   |  |  |  |  |
| 009                                                                                                                                                                                               | 58.9  | 0.165 | 0.35  | 0.472 | -0.552 | 0.491           | -28.1 | -6.8  | 28.9            | 193.7           | 81.2 | -87.0  | -13.8  | 88.1             | 189.0           | 0.00 1.00 0.50       | %                  | G25B | #     |   |  |  |  |  |
| 010                                                                                                                                                                                               | 45.5  | 0.142 | 0.253 | 0.563 | -0.955 | 0.647           | -17.6 | -23.6 | 29.5            | 233.3           | 73.2 | -61.4  | -46.0  | 76.8             | 216.8           | 0.00 1.00 1.00       | %                  | G50B | #     |   |  |  |  |  |
| 011                                                                                                                                                                                               | 29.4  | 0.128 | 0.186 | 0.69  | -1.474 | 1.071           | -7.6  | -30.5 | 31.5            | 255.9           | 61.1 | -33.6  | -66.7  | 74.7             | 243.2           | 0.00 0.50 1.00       | %                  | G75B | #     |   |  |  |  |  |
| 012                                                                                                                                                                                               | 18.8  | 0.127 | 0.129 | 0.981 | -2.291 | 1.856           | 0.5   | -34.9 | 34.9            | 278.9           | 50.4 | 3.1    | -84.7  | 84.7             | 272.1           | 0.00 0.00 1.00       | %                  | B00R | #     |   |  |  |  |  |
| 013                                                                                                                                                                                               | 8.9   | 0.136 | 0.067 | 2.02  | -4.722 | 4.418           | 9.5   | -38.2 | 39.4            | 284.0           | 35.8 | 63.8   | -108.4 | 125.8            | 309.5           | 0.50 0.00 1.00       | %                  | B25R | #     |   |  |  |  |  |
| 014                                                                                                                                                                                               | 26.3  | 0.329 | 0.14  | 2.344 | -1.51  | 1.76            | 36.7  | -28.3 | 46.3            | 323.3           | 58.3 | 112.5  | -65.8  | 130.3            | 329.6           | 1.00 0.00 1.00       | %                  | B50R | #     |   |  |  |  |  |
| 015                                                                                                                                                                                               | 40.6  | 0.437 | 0.249 | 1.75  | -0.5   | 0.802           | 32.5  | -2.6  | 32.6            | 355.3           | 69.9 | 83.6   | -7.0   | 83.9             | 355.1           | 1.00 0.00 0.50       | %                  | B75R | #     |   |  |  |  |  |
| 016                                                                                                                                                                                               | 41.2  | 0.516 | 0.321 | 1.603 | -0.201 | 0.693           | 26.9  | 9.6   | 28.5            | 19.7            | 70.3 | 70.8   | 33.7   | 78.4             | 25.4            | 1.00 0.00 0.00       | %                  | R00Y | #     |   |  |  |  |  |
| CIEXYZ-Daten von CIE-Testfarben 9 (R): 20.6 11.2 4.3, 10 (Y): 54.8 59.0 12.0, 11 (G): 12.1 20.3 15.3, 12 (B): 6.2 6.4 27.6                                                                        |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |      |       |   |  |  |  |  |
| 5-stufige gleichabständige Graureihe mit Ziel-Helligkeit: L* = 0.0, 25.0, 50.0, 75.0, 100.0                                                                                                       |       |       |       |       |        |                 |       |       |                 |                 |      |        |        |                  |                 |                      |                    |      |       |   |  |  |  |  |
| 000                                                                                                                                                                                               | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0             | 0.0   | 0.0   | 0.0             | 0.0             | 0.0  | 0.0    | 0.0    | 0.0              | 0.0             | 0.0                  | 0.00 0.00 0.00     | %    | N000W | # |  |  |  |  |
| 001                                                                                                                                                                                               | 4.4   | 0.312 | 0.329 | 0.95  | -0.435 | 0.01            | 0.0   | 0.0   | 0.0             | 77.1            | 25.0 | 0.0    | 0.0    | 0.0              | 0.0             | 0.0                  | 0.25 0.25 0.25     | %    | N025W | # |  |  |  |  |
| 002                                                                                                                                                                                               | 18.4  | 0.312 | 0.329 | 0.95  | -0.435 | 0.01            | 0.0   | 0.0   | 0.0             | 57.4            | 50.0 | 0.0    | 0.0    | 0.0              | 0.0             | 0.0                  | 0.50 0.50 0.50     | %    | N050W | # |  |  |  |  |
| 003                                                                                                                                                                                               | 48.2  | 0.312 | 0.329 | 0.95  | -0.435 | 0.01            | 0.0   | 0.0   | 0.0             | 22.9            | 75.0 | 0.0    | 0.0    | 0.0              | 0.0             | 0.0                  | 0.75 0.75 0.75     | %    | N075W | # |  |  |  |  |
| 004                                                                                                                                                                                               | 100.0 | 0.312 | 0.329 | 0.95  | -0.435 | 0.01            | 0.0   | 0.0   | 0.0             | 100.0           | 0.0  | 0.0    | 0.0    | 0.0              | 0.0             | 0.0                  | 1.00 1.00 1.00     | %    | N100W | # |  |  |  |  |

| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w,10</sub> =100, Y <sub>m</sub> =520_770, CIELAB-Daten        |                                 |                   |                   |                   |                  |        |         |                 |                                 |                                 |      |  |   | % |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------|-------------------|-------------------|------------------|--------|---------|-----------------|---------------------------------|---------------------------------|------|--|---|---|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                           | i <sub>2</sub> , λ <sub>2</sub> | L* <sub>100</sub> | a* <sub>100</sub> | b* <sub>100</sub> | C* <sub>ab</sub> | a'     | b'      | h <sub>ab</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  | % |   |
| 0 405                                                                                                                                     | 31 556                          | 79.94             | -66.31            | -34.08            | 74.56            | 0.1807 | -0.1034 | 207.2           | 15 476                          | 37 585                          | Cm   |  | % |   |
| 6 435                                                                                                                                     | 31 557                          | 80.42             | -82.6             | -17.8             | 84.5             | 0.1724 | -0.0949 | 192.1           | 16 480                          | 44 621                          |      |  | % |   |
| 10 450                                                                                                                                    | 31 559                          | 80.48             | -108.29           | 14.97             | 109.32           | 0.1591 | -0.078  | 172.1           | 18 491                          | -1 491c                         |      |  | % |   |
| 11 460                                                                                                                                    | 32 562                          | 81.44             | -111.37           | 27.39             | 114.69           | 0.1581 | -0.0717 | 166.1           | 19 498                          | -1 498c                         |      |  | % |   |
| 12 465                                                                                                                                    | 33 565                          | 82.34             | -112.77           | 40.26             | 119.75           | 0.1579 | -0.0653 | 160.3           | 21 506                          | -1 506c                         |      |  | % |   |
| 14 470                                                                                                                                    | 34 570                          | 83.48             | -109.79           | 65.41             | 127.8            | 0.1601 | -0.053  | 149.2           | 24 522                          | -1 522c                         |      |  | % |   |
| 15 475                                                                                                                                    | 35 579                          | 86.33             | -94.64            | 81.3              | 124.77           | 0.169  | -0.0462 | 139.3           | 26 533                          | -1 533c                         | Gm   |  | % |   |
| 16 480                                                                                                                                    | 41 606                          | 92.55             | -53.33            | 102.14            | 115.22           | 0.1907 | -0.0389 | 117.5           | 30 550                          | -1 550c                         |      |  | % |   |
| 16 485                                                                                                                                    | -1 484c                         | 96.94             | -20.21            | 109.71            | 111.55           | 0.2063 | -0.0374 | 100.4           | 32 560                          | 10 454                          |      |  | % |   |
| 18 490                                                                                                                                    | -1 490c                         | 95.61             | -14.83            | 124.45            | 125.34           | 0.2086 | -0.0302 | 96.7            | 32 562                          | 11 459                          | max  |  | % |   |
| 19 495                                                                                                                                    | -1 495c                         | 94.76             | -11.22            | 130.34            | 130.82           | 0.2101 | -0.0271 | 94.9            | 32 563                          | 12 461                          |      |  | % |   |
| 19 500                                                                                                                                    | -1 499c                         | 94.76             | -11.22            | 130.34            | 130.82           | 0.2101 | -0.0271 | 94.9            | 32 563                          | 12 461                          |      |  | % |   |
| 22 510                                                                                                                                    | -1 510c                         | 91.28             | 2.92              | 142.55            | 142.58           | 0.2166 | -0.0195 | 88.8            | 33 567                          | 13 466                          |      |  | % |   |
| 23 520                                                                                                                                    | -1 519c                         | 89.77             | 8.54              | 144.07            | 144.32           | 0.2192 | -0.0174 | 86.6            | 33 568                          | 13 468                          | Ym   |  | % |   |
| 26 530                                                                                                                                    | -1 530c                         | 84.06             | 27.32             | 142.33            | 144.93           | 0.2288 | -0.0115 | 79.1            | 34 573                          | 14 472                          |      |  | % |   |
| 27 540                                                                                                                                    | -1 539c                         | 81.79             | 33.86             | 139.63            | 143.68           | 0.2325 | -0.0095 | 76.3            | 35 576                          | 14 473                          |      |  | % |   |
| 28 545                                                                                                                                    | -1 544c                         | 79.35             | 40.37             | 136.19            | 142.05           | 0.2363 | -0.0075 | 73.4            | 35 578                          | 14 474                          |      |  | % |   |
| 29 550                                                                                                                                    | -1 549c                         | 76.75             | 46.79             | 132.12            | 140.16           | 0.2404 | -0.0054 | 70.4            | 36 580                          | 15 475                          |      |  | % |   |
| 31 555                                                                                                                                    | -1 555c                         | 71.13             | 58.79             | 122.64            | 136.0            | 0.2489 | 0.0     | 64.3            | 37 586                          | 15 476                          |      |  | % |   |
| 32 560                                                                                                                                    | 10 451                          | 69.5              | 84.42             | -15.9             | 85.9             | 0.2645 | -0.095  | 349.3           | -1 492c                         | 18 492                          |      |  | % |   |
| 380                                                                                                                                       | 770                             | 100.0             | 0.0               | 0.0               | 0.0              | 0.2152 | -0.0857 | 0.0             |                                 |                                 |      |  | % |   |
| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w,10</sub> =100, Y <sub>m</sub> =770_520, CIELAB komplementär |                                 |                   |                   |                   |                  |        |         |                 |                                 |                                 |      |  |   | % |
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                           | i <sub>2</sub> , λ <sub>2</sub> | L* <sub>100</sub> | a* <sub>100</sub> | b* <sub>100</sub> | C* <sub>ab</sub> | a'     | b'      | h <sub>ab</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  | % |   |
| 31 556                                                                                                                                    | 0 405                           | 71.84             | 57.81             | 111.35            | 125.47           | 0.2481 | -0.0221 | 62.5            | 37 585                          | 15 476                          | Rm   |  | % |   |
| 31 557                                                                                                                                    | 6 435                           | 71.27             | 68.77             | 29.56             | 74.85            | 0.2546 | -0.0689 | 23.2            | 44 621                          | 16 480                          |      |  | % |   |
| 31 559                                                                                                                                    | 10 450                          | 71.19             | 81.9              | -15.15            | 83.29            | 0.2621 | -0.0944 | 349.5           | -1 491c                         | 18 491                          |      |  | % |   |
| 32 562                                                                                                                                    | 11 460                          | 69.98             | 86.63             | -25.22            | 90.23            | 0.2655 | -0.1003 | 343.7           | -1 498c                         | 19 498                          |      |  | % |   |
| 33 565                                                                                                                                    | 12 465                          | 68.81             | 90.56             | -33.85            | 96.68            | 0.2685 | -0.1056 | 339.5           | -1 506c                         | 21 506                          |      |  | % |   |
| 34 570                                                                                                                                    | 14 470                          | 67.22             | 93.6              | -46.01            | 104.3            | 0.2714 | -0.1132 | 333.8           | -1 522c                         | 24 522                          |      |  | % |   |
| 35 579                                                                                                                                    | 15 475                          | 62.81             | 97.27             | -56.68            | 112.58           | 0.2768 | -0.1215 | 329.7           | -1 533c                         | 26 533                          | Mm   |  | % |   |
| 41 606                                                                                                                                    | 16 480                          | 49.57             | 94.8              | -81.7             | 125.15           | 0.2874 | -0.1477 | 319.2           | -1 550c                         | 30 550                          |      |  | % |   |
| -1 484c                                                                                                                                   | 16 485                          | 33.36             | 73.3              | -109.63           | 131.88           | 0.2894 | -0.1962 | 303.7           | 10 454                          | 32 560                          |      |  | % |   |
| -1 490c                                                                                                                                   | 18 490                          | 39.48             | 47.93             | -101.69           | 112.42           | 0.2584 | -0.1769 | 295.2           | 11 459                          | 32 562                          | min  |  | % |   |
| -1 495c                                                                                                                                   | 19 495                          | 42.69             | 34.2              | -96.93            | 102.79           | 0.2443 | -0.1679 | 289.4           | 12 461                          | 32 563                          |      |  | % |   |
| -1 499c                                                                                                                                   | 19 500                          | 42.69             | 34.2              | -96.93            | 102.79           | 0.2443 | -0.1679 | 289.4           | 12 461                          | 32 563                          |      |  | % |   |
| -1 510c                                                                                                                                   | 22 510                          | 52.84             | -7.33             | -80.67            | 81.0             | 0.2099 | -0.144  | 264.8           | 13 466                          | 33 567                          |      |  | % |   |
| -1 519c                                                                                                                                   | 23 520                          | 56.28             | -19.89            | -74.95            | 77.55            | 0.2014 | -0.1373 | 255.1           | 13 468                          | 33 568                          | Bm   |  | % |   |
| -1 530c                                                                                                                                   | 26 530                          | 66.39             | -49.47            | -57.84            | 76.11            | 0.1852 | -0.1206 | 229.4           | 14 472                          | 34 573                          |      |  | % |   |
| -1 539c                                                                                                                                   | 27 540                          | 69.54             | -55.96            | -52.46            | 76.71            | 0.1825 | -0.1162 | 223.1           | 14 473                          | 35 576                          |      |  | % |   |
| -1 544c                                                                                                                                   | 28 545                          | 72.53             | -60.74            | -47.32            | 77.0             | 0.1809 | -0.1123 | 217.9           | 14 474                          | 35 578                          |      |  | % |   |
| -1 549c                                                                                                                                   | 29 550                          | 75.38             | -63.87            | -42.44            | 76.68            | 0.1803 | -0.1088 | 213.6           | 15 475                          | 36 580                          |      |  | % |   |
| -1 555c                                                                                                                                   | 31 555                          | 80.53             | -65.58            | -33.56            | 73.67            | 0.1813 | -0.103  | 207.1           | 15 476                          | 37 586                          |      |  | % |   |
| 10 451                                                                                                                                    | 32 560                          | 81.82             | -103.91           | 14.76             | 104.95           | 0.1621 | -0.0782 | 171.9           | 18 492                          | -1 492c                         |      |  | % |   |
| 380                                                                                                                                       | 770                             | 100.0             | 0.0               | 0.0               | 0.0              | 0.2152 | -0.0857 | 0.0             |                                 |                                 |      |  | % |   |

| Ostwald-Optimalfarben (o) von maximalem (m) C <sub>AB</sub> für D65, Y <sub>w,10</sub> =100, Y <sub>m</sub> =520_770, CIELAB-Daten |                                 |                   |                   |                   |                  |        |         |                 |                                 |                                 |      |  |  |  | % |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------|-------------------|-------------------|------------------|--------|---------|-----------------|---------------------------------|---------------------------------|------|--|--|--|---|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                    | i <sub>2</sub> , λ <sub>2</sub> | L* <sub>100</sub> | a* <sub>100</sub> | b* <sub>100</sub> | C* <sub>ab</sub> | a'     | b'      | h <sub>ab</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  |  |  | % |
| 0 405                                                                                                                              | 31 556                          | 79.94             | -66.31            | -34.08            | 74.56            | 0.1807 | -0.1034 | 207.2           | 15 476                          | 37 585                          | Cm   |  |  |  | % |
| 6 435                                                                                                                              | 31 557                          | 80.42             | -82.6             | -17.8             | 84.5             | 0.1724 | -0.0949 | 192.1           | 16 480                          | 44 621                          |      |  |  |  | % |
| 10 450                                                                                                                             | 31 559                          | 80.48             | -108.29           | 14.97             | 109.32           | 0.1591 | -0.078  | 172.1           | 18 491                          | -1 491c                         |      |  |  |  | % |
| 11 460                                                                                                                             | 32 562                          | 81.44             | -111.37           | 27.39             | 114.69           | 0.1581 | -0.0717 | 166.1           | 19 498                          | -1 498c                         |      |  |  |  | % |
| 12 465                                                                                                                             | 33 565                          | 82.34             | -112.77           | 40.26             | 119.75           | 0.1579 | -0.0653 | 160.3           | 21 506                          | -1 506c                         |      |  |  |  | % |
| 14 470                                                                                                                             | 34 570                          | 83.48             | -109.79           | 65.41             | 127.8            | 0.1601 | -0.053  | 149.2           | 24 522                          | -1 522c                         |      |  |  |  | % |
| 15 475                                                                                                                             | 35 579                          | 86.33             | -94.64            | 81.3              | 124.77           | 0.169  | -0.0462 | 139.3           | 26 533                          | -1 533c                         | Gm   |  |  |  | % |
| 16 480                                                                                                                             | 41 606                          | 92.55             | -53.33            | 102.14            | 115.22           | 0.1907 | -0.0389 | 117.5           | 30 550                          | -1 550c                         |      |  |  |  | % |
| 16 485                                                                                                                             | -1 484c                         | 96.94             | -20.21            | 109.71            | 111.55           | 0.2063 | -0.0374 | 100.4           | 32 560                          | 10 454                          |      |  |  |  | % |
| 18 490                                                                                                                             | -1 490c                         | 95.61             | -14.83            | 124.45            | 125.34           | 0.2086 | -0.0302 | 96.7            | 32 562                          | 11 459                          | max  |  |  |  | % |
| 19 495                                                                                                                             | -1 495c                         | 94.76             | -11.22            | 130.34            | 130.82           | 0.2101 | -0.0271 | 94.9            | 32 563                          | 12 461                          |      |  |  |  | % |
| 19 500                                                                                                                             | -1 499c                         | 94.76             | -11.22            | 130.34            | 130.82           | 0.2101 | -0.0271 | 94.9            | 32 563                          | 12 461                          |      |  |  |  | % |
| 22 510                                                                                                                             | -1 510c                         | 91.28             | 2.92              | 142.55            | 142.58           | 0.2166 | -0.0195 | 88.8            | 33 567                          | 13 466                          |      |  |  |  | % |
| 23 520                                                                                                                             | -1 519c                         | 89.77             | 8.54              | 144.07            | 144.32           | 0.2192 | -0.0174 | 86.6            | 33 568                          | 13 468                          | Ym   |  |  |  | % |
| 26 530                                                                                                                             | -1 530c                         | 84.06             | 27.32             | 142.33            | 144.93           | 0.2288 | -0.0115 | 79.1            | 34 573                          | 14 472                          |      |  |  |  | % |
| 27 540                                                                                                                             | -1 539c                         | 81.79             | 33.86             | 139.63            | 143.68           | 0.2325 | -0.0095 | 76.3            | 35 576                          | 14 473                          |      |  |  |  | % |
| 28 545                                                                                                                             | -1 544c                         | 79.35             | 40.37             | 136.19            | 142.05           | 0.2363 | -0.0075 | 73.4            | 35 578                          | 14 474                          |      |  |  |  | % |
| 29 550                                                                                                                             | -1 549c                         | 76.75             | 46.79             | 132.12            | 140.16           | 0.2404 | -0.0054 | 70.4            | 36 580                          | 15 475                          |      |  |  |  | % |
| 31 555                                                                                                                             | -1 555c                         | 71.13             | 58.79             | 122.64            | 136.0            | 0.2489 | 0.0     | 64.3            | 37 586                          | 15 476                          |      |  |  |  | % |
| 32 560                                                                                                                             | 10 451                          | 69.5              | 84.42             | -15.9             | 85.9             | 0.2645 | -0.095  | 349.3           | -1 492c                         | 18 492                          |      |  |  |  | % |
| 380                                                                                                                                | 770                             | 100.0             | 0.0               | 0.0               | 0.0              | 0.2152 | -0.0857 | 0.0             |                                 |                                 |      |  |  |  | % |

| rgb <sub>e,ab</sub> - und CIE-Daten eines Elementar-Bunttonkreises nach CIE R1-47 für Ostwald-Farben für CIE-Lichtart D65                                                                               |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                        |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|--------------------|--------------------|------------------|------------------|------------------|---------------------|--------------------|------------------------|-----------------------|
| X <sub>xy</sub> , abc <sub>AB</sub> , ABC <sub>AB</sub> , LabC* <sub>ab</sub> , h <sub>ab</sub> -Daten für relative Stufung des Elementarbunttons h <sub>ab</sub> von CIELAB für CIE-10-Grad Beobachter |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                        |                       |
| Elementar-Bunttonkreis mit 4 Ziel-Elementar-Bunttonwinkeln: h <sub>ab</sub> = 25.9, 87.3, 158.8, 252.1 von CIELAB und 16 Ziel-Bunttonwinkeln:                                                           |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                        |                       |
| 25.9                                                                                                                                                                                                    | 41.2             | 56.6            | 72.0            | 87.3            | 105.2           | 123.1              | 140.9           | 158.8           | 182.1              | 205.4              | 228.8            | 252.1            | 285.5            | 319.0               | 352.4              |                        |                       |
| CIELAB-Daten CIE-Testfarben 9 (R): 39.2 54.5 26.4, 10 (Y): 79.5 3.2 71.0, 11 (G): 52.3 -39.6 15.3, 12 (B): 33.6 -12.8 -39.9                                                                             |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                        |                       |
| no <sub>ab</sub>                                                                                                                                                                                        | X <sub>100</sub> | x <sub>10</sub> | y <sub>10</sub> | a <sub>10</sub> | b <sub>10</sub> | C <sub>AB,10</sub> | A <sub>10</sub> | B <sub>10</sub> | C <sub>AB,10</sub> | h <sub>AB,10</sub> | L* <sub>10</sub> | a* <sub>10</sub> | b* <sub>10</sub> | C* <sub>ab,10</sub> | h <sub>ab,10</sub> | rgb <sub>e,ab,10</sub> | Code <sub>ab,10</sub> |
| 000                                                                                                                                                                                                     | 40.4             | 0.542           | 0.33            | 1.642           | -0.153          | 0.747              | 28.1            | 11.1            | 30.2               | 21.6               | 69.8             | 74.3             | 42.8             | 85.8                | 29.9               | 1.00 0.00 0.00         | % R00Y #              |
| 001                                                                                                                                                                                                     | 41.0             | 0.582           | 0.37            | 1.572           | -0.051          | 0.73               | 25.6            | 15.5            | 29.9               | 31.1               | 70.2             | 68.2             | 75.3             | 101.7               | 47.8               | 1.00 0.25 0.00         | % R25Y #              |
| 002                                                                                                                                                                                                     | 41.8             | 0.594           | 0.396           | 1.501           | -0.009          | 0.694              | 23.1            | 17.5            | 29.0               | 37.1               | 70.7             | 61.9             | 107.5            | 124.1               | 60.0               | 1.00 0.50 0.00         | % R50Y #              |
| 003                                                                                                                                                                                                     | 53.6             | 0.562           | 0.437           | 1.283           | 0.0             | 0.544              | 18.0            | 23.0            | 29.2               | 51.9               | 78.2             | 43.2             | 134.5            | 141.3               | 72.1               | 1.00 0.75 0.00         | % R75Y #              |
| 004                                                                                                                                                                                                     | 77.3             | 0.494           | 0.5             | 0.987           | -0.004          | 0.427              | 3.0             | 32.8            | 33.0               | 84.7               | 90.4             | 6.2              | 144.2            | 144.4               | 87.5               | 1.00 1.00 0.00         | % Y00G #              |
| 005                                                                                                                                                                                                     | 90.3             | 0.421           | 0.529           | 0.795           | -0.037          | 0.421              | -13.8           | 35.4            | 38.0               | 111.3              | 96.1             | -27.5            | 107.7            | 111.2               | 104.3              | 0.75 1.00 0.00         | % Y25G #              |
| 006                                                                                                                                                                                                     | 78.3             | 0.351           | 0.582           | 0.603           | -0.045          | 0.516              | -27.0           | 30.1            | 40.4               | 131.8              | 90.9             | -64.4            | 97.3             | 116.7               | 123.5              | 0.50 1.00 0.00         | % Y50G #              |
| 007                                                                                                                                                                                                     | 42.4             | 0.576           | 0.376           | 1.531           | -0.049          | 0.696              | 24.7            | 16.1            | 29.5               | 33.0               | 71.2             | 65.1             | 77.2             | 101.0               | 49.8               | 0.25 1.00 0.00         | % Y75G #              |
| 008                                                                                                                                                                                                     | 42.2             | 0.569           | 0.366           | 1.552           | -0.069          | 0.703              | 25.5            | 15.2            | 29.7               | 30.7               | 71.0             | 67.0             | 68.3             | 95.7                | 45.5               | 0.00 1.00 0.00         | % G00B #              |
| 009                                                                                                                                                                                                     | 41.9             | 0.556           | 0.352           | 1.58            | -0.103          | 0.711              | 26.5            | 13.6            | 29.8               | 27.2               | 70.8             | 69.5             | 56.4             | 89.5                | 39.0               | 0.00 1.00 0.50         | % G25B #              |
| 010                                                                                                                                                                                                     | 41.6             | 0.539           | 0.335           | 1.609           | -0.148          | 0.718              | 27.5            | 11.6            | 29.8               | 22.9               | 70.6             | 71.9             | 44.4             | 84.5                | 31.6               | 0.00 1.00 1.00         | % G50B #              |
| 011                                                                                                                                                                                                     | 41.3             | 0.519           | 0.317           | 1.637           | -0.204          | 0.725              | 28.4            | 9.2             | 29.9               | 18.0               | 70.4             | 74.4             | 32.5             | 81.2                | 23.6               | 0.00 0.50 1.00         | % G75B #              |
| 012                                                                                                                                                                                                     | 41.0             | 0.498           | 0.299           | 1.665           | -0.27           | 0.734              | 29.4            | 6.5             | 30.1               | 12.4               | 70.2             | 76.7             | 21.1             | 79.6                | 15.4               | 0.00 0.00 1.00         | % B00R #              |
| 013                                                                                                                                                                                                     | 40.6             | 0.466           | 0.274           | 1.703           | -0.378          | 0.756              | 30.6            | 2.0             | 30.7               | 3.8                | 69.9             | 79.8             | 6.1              | 80.0                | 4.3                | 0.50 0.00 1.00         | % B25R #              |
| 014                                                                                                                                                                                                     | 40.3             | 0.438           | 0.252           | 1.736           | -0.49           | 0.79               | 31.7            | -2.4            | 31.8               | 355.5              | 69.6             | 82.5             | -6.7             | 82.7                | 355.3              | 1.00 0.00 1.00         | % B50R #              |
| 015                                                                                                                                                                                                     | 40.0             | 0.424           | 0.242           | 1.754           | -0.55           | 0.815              | 32.2            | -4.8            | 32.6               | 351.4              | 69.4             | 83.9             | -12.7            | 84.8                | 351.3              | 1.00 0.00 0.50         | % B75R #              |
| 016                                                                                                                                                                                                     | 40.4             | 0.542           | 0.33            | 1.642           | -0.153          | 0.747              | 28.1            | 11.1            | 30.2               | 21.6               | 69.8             | 74.3             | 42.8             | 85.8                | 29.9               | 1.00 0.00 0.00         | % R00Y #              |
| CIEXYZ-Daten von CIE-Testfarben 9 (R): 19.0 10.8 4.3, 10 (Y): 54.3 55.9 11.0, 11 (G): 12.5 20.4 14.4, 12 (B): 6.1 7.8 26.5                                                                              |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                        |                       |
| 5-stufige gleichabständige Graureihe mit Ziel-Helligkeit: L* = 0.0, 25.0, 50.0, 75.0, 100.0                                                                                                             |                  |                 |                 |                 |                 |                    |                 |                 |                    |                    |                  |                  |                  |                     |                    |                        |                       |
| 000                                                                                                                                                                                                     | 0.0              | 0.0             | 0.0             | 0.0             | 0.0             | 0.0                | 1.04            | 0.0             | 0.0                | 0.0                | 0.0              | 0.0              | 0.0              | 0.0                 | 0.0                | 0.00 0.00 0.00         | % N000W #             |
| 001                                                                                                                                                                                                     | 4.4              | 0.313           | 0.33            | 0.948           | -0.429          | 0.01               | 0.0             | 0.0             | 0.0                | 77.0               | 25.0             | 0.0              | 0.0              | 0.0                 | 0.0                | 0.25 0.25 0.25         | % N025W #             |
| 002                                                                                                                                                                                                     | 18.4             | 0.313           | 0.33            | 0.948           | -0.429          | 0.01               | 0.0             | 0.0             | 0.0                | 55.3               | 50.0             | 0.0              | 0.0              | 0.0                 | 0.0                | 0.50 0.50 0.50         | % N050W #             |
| 003                                                                                                                                                                                                     | 48.2             | 0.313           | 0.33            | 0.948           | -0.429          | 0.01               | 0.0             | 0.0             | 0.0                | 23.1               | 75.0             | 0.0              | 0.0              | 0.0                 | 0.0                | 0.75 0.75 0.75         | % N075W #             |
| 004                                                                                                                                                                                                     | 100.0            | 0.313           | 0.33            | 0.948           | -0.429          | 0.01               | 0.0             | 0.0             | 0.0                | 100.0              | 0.0              | 0.0              | 0.0              | 0.0                 | 0.0                | 1.00 1.00 1.00         | % N100W #             |