

**Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for P60,  $Y_w=100$ ,  $Y_m=520.770$**

| $i_1$ | $\lambda_1$ | $i_2$ | $\lambda_2$ | X      | Y      | Z      | x      | y      | z      | $h_{xy}$ | $i_d$ | $i_d$ | $i_d$ | $i_c$ | $i_c$ | Code |
|-------|-------------|-------|-------------|--------|--------|--------|--------|--------|--------|----------|-------|-------|-------|-------|-------|------|
| 0     | 405         | 32    | 563         | 32.54  | 57.75  | 103.62 | 0.1678 | 0.2978 | 0.5343 | 192.3    | 16    | 483   | 38    | 590   | Cm    |      |
| 6     | 435         | 32    | 563         | 28.58  | 58.29  | 82.04  | 0.1692 | 0.345  | 0.4856 | 174.9    | 17    | 487   | 44    | 621   |       |      |
| 10    | 450         | 33    | 565         | 22.8   | 58.9   | 47.87  | 0.1759 | 0.4545 | 0.3694 | 139.8    | 19    | 497   | 47    | 1497c |       |      |
| 11    | 460         | 33    | 566         | 22.48  | 60.12  | 39.44  | 0.1842 | 0.4925 | 0.3231 | 130.4    | 20    | 502   | 47    | 1502c |       |      |
| 13    | 465         | 33    | 568         | 21.08  | 60.68  | 24.55  | 0.1982 | 0.5707 | 0.2309 | 117.2    | 22    | 513   | 47    | 1513c |       |      |
| 14    | 470         | 34    | 570         | 21.89  | 62.18  | 18.77  | 0.2129 | 0.6045 | 0.1825 | 111.7    | 24    | 521   | 47    | 1521c |       |      |
| 15    | 475         | 34    | 574         | 24.2   | 64.7   | 14.16  | 0.2348 | 0.6277 | 0.1374 | 106.3    | 25    | 529   | 47    | 1529c | Gm    |      |
| 15    | 480         | 36    | 580         | 29.74  | 69.95  | 14.17  | 0.2611 | 0.6143 | 0.1245 | 102.0    | 27    | 535   | 47    | 1535c |       |      |
| 17    | 485         | 39    | 595         | 42.39  | 78.0   | 7.95   | 0.3303 | 0.6077 | 0.0619 | 88.2     | 29    | 549   | 47    | 1549c |       |      |
| 18    | 490         | 41    | 590c        | 79.69  | 94.22  | 5.93   | 0.4431 | 0.5238 | 0.0329 | 57.7     | 33    | 566   | 11    | 459   | max   |      |
| 19    | 495         | 41    | 595c        | 79.65  | 92.78  | 4.38   | 0.4504 | 0.5247 | 0.0247 | 56.3     | 33    | 567   | 12    | 461   |       |      |
| 20    | 500         | 41    | 590c        | 79.63  | 90.97  | 3.18   | 0.4582 | 0.5234 | 0.0183 | 54.5     | 33    | 568   | 12    | 464   |       |      |
| 22    | 510         | 41    | 510c        | 79.5   | 85.98  | 1.6    | 0.4758 | 0.5145 | 0.0095 | 49.9     | 34    | 570   | 13    | 469   |       |      |
| 24    | 520         | 41    | 520c        | 78.85  | 79.07  | 0.8    | 0.4967 | 0.4981 | 0.005  | 43.5     | 34    | 572   | 14    | 473   | Ym    |      |
| 25    | 530         | 41    | 529c        | 78.18  | 75.03  | 0.56   | 0.5084 | 0.4879 | 0.0036 | 39.9     | 34    | 574   | 15    | 475   |       |      |
| 27    | 540         | 41    | 539c        | 75.99  | 66.2   | 0.26   | 0.5334 | 0.4647 | 0.0018 | 32.1     | 35    | 578   | 15    | 478   |       |      |
| 29    | 545         | 41    | 545c        | 72.53  | 56.82  | 0.13   | 0.5601 | 0.4388 | 0.001  | 24.2     | 36    | 582   | 16    | 480   |       |      |
| 29    | 550         | 41    | 549c        | 72.53  | 56.82  | 0.13   | 0.5601 | 0.4388 | 0.001  | 24.2     | 36    | 582   | 16    | 480   |       |      |
| 30    | 555         | 41    | 554c        | 70.27  | 52.07  | 0.09   | 0.5739 | 0.4252 | 0.0007 | 20.3     | 36    | 584   | 16    | 481   |       |      |
| 32    | 560         | 41    | 560c        | 64.66  | 42.7   | 0.05   | 0.6019 | 0.3975 | 0.0005 | 13.2     | 37    | 589   | 16    | 483   |       |      |
| 32    | 563         | 0     | 405         | 64.52  | 42.24  | 0.94   | 0.599  | 0.3921 | 0.0087 | 12.3     | 38    | 590   | 16    | 483   | Rm    |      |
| 32    | 563         | 6     | 435         | 68.48  | 41.7   | 22.52  | 0.516  | 0.3142 | 0.1697 | 354.9    | 44    | 621   | 17    | 487   |       |      |
| 33    | 565         | 10    | 450         | 74.26  | 41.09  | 56.7   | 0.4316 | 0.2388 | 0.3295 | 319.8    | 47    | 1497c | 19    | 497   |       |      |
| 33    | 566         | 11    | 460         | 74.58  | 39.87  | 65.12  | 0.4153 | 0.222  | 0.3626 | 310.5    | 47    | 1502c | 20    | 502   |       |      |
| 33    | 568         | 13    | 465         | 75.98  | 39.31  | 80.02  | 0.389  | 0.2012 | 0.4096 | 297.3    | 47    | 1513c | 22    | 513   |       |      |
| 34    | 570         | 14    | 470         | 75.17  | 37.81  | 85.8   | 0.3781 | 0.1902 | 0.4316 | 291.7    | 47    | 1521c | 24    | 521   |       |      |
| 34    | 574         | 15    | 475         | 72.86  | 35.29  | 90.4   | 0.3669 | 0.1777 | 0.4552 | 286.3    | 47    | 1529c | 25    | 529   | Mm    |      |
| 36    | 580         | 15    | 480         | 67.32  | 30.04  | 90.39  | 0.3585 | 0.1599 | 0.4814 | 282.1    | 47    | 1535c | 27    | 535   |       |      |
| 39    | 595         | 17    | 485         | 54.67  | 21.99  | 96.61  | 0.3154 | 0.1269 | 0.5575 | 268.2    | 47    | 1549c | 29    | 549   |       |      |
| -1    | 490c        | 18    | 490         | 17.37  | 57.77  | 98.64  | 0.1426 | 0.0474 | 0.8099 | 237.7    | 11    | 459   | 33    | 566   | min   |      |
| -1    | 495c        | 19    | 495         | 17.41  | 7.21   | 100.19 | 0.1395 | 0.0578 | 0.8026 | 236.3    | 12    | 461   | 33    | 567   |       |      |
| -1    | 500c        | 20    | 500         | 17.43  | 9.02   | 101.39 | 0.1363 | 0.0705 | 0.793  | 234.6    | 12    | 464   | 33    | 568   |       |      |
| -1    | 510c        | 22    | 510         | 17.56  | 14.01  | 102.97 | 0.1305 | 0.1041 | 0.7653 | 229.9    | 13    | 469   | 34    | 570   |       |      |
| -1    | 520c        | 24    | 520         | 18.21  | 20.92  | 103.76 | 0.1274 | 0.1464 | 0.7261 | 223.6    | 14    | 473   | 34    | 572   | Bm    |      |
| -1    | 529c        | 25    | 530         | 18.88  | 24.96  | 104.01 | 0.1277 | 0.1688 | 0.7034 | 219.9    | 15    | 475   | 34    | 574   |       |      |
| -1    | 539c        | 27    | 540         | 21.07  | 33.79  | 104.3  | 0.1324 | 0.2122 | 0.6552 | 212.2    | 15    | 478   | 35    | 578   |       |      |
| -1    | 545c        | 29    | 545         | 24.53  | 43.17  | 104.44 | 0.1425 | 0.2507 | 0.6066 | 204.2    | 16    | 480   | 36    | 582   |       |      |
| -1    | 549c        | 29    | 550         | 24.53  | 43.17  | 104.44 | 0.1425 | 0.2507 | 0.6066 | 204.2    | 16    | 480   | 36    | 582   |       |      |
| -1    | 554c        | 30    | 555         | 26.78  | 47.92  | 104.47 | 0.1495 | 0.2674 | 0.583  | 200.4    | 16    | 481   | 36    | 584   |       |      |
| -1    | 560c        | 32    | 560         | 32.4   | 57.29  | 104.51 | 0.1668 | 0.2949 | 0.5381 | 193.2    | 16    | 483   | 37    | 589   |       |      |
| 380   | 770         | 97.06 | 99.99       | 104.57 | 0.3218 | 0.3315 | 0.3466 | 0.0    |        |          |       |       |       |       |       |      |

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CE160-7N,16

TUB-test chart CE16; CIE (x, y) and chromaticities ( $a_1$ ,  $b_1$ )  
Ostwald optimal colours for illuminant P60; diagram for illuminant P60,  $Y_w=100$

input: w/rgb/cmyk -> rgb

