

$XYZ_W=95.04, 100.0, 108.89$

$$A_2 = 2.5 (a_2 - a_{2n}) Y$$

$$B_2 = 2.5 (b_2 - b_{2n}) Y$$

$$a_2 = a_{20} [(x - x_c) / y]$$

$$b_2 = b_{20} B_2 [z / y]$$

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

$$x_c = 0.110, B_2 = 0.800$$

$$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$$

6 Ostwald-Farben (o), $C_{AB2} = \text{const}$

Farbenraum (C_{AB2}, L^*_{TUr})

$$L^*_{TUr} = 50 + 40[Y_R \log(S)]$$

Lichtart D65, $Y_W=54.0, Y_N=6.0$

Name Bereich X Z x N_y λ_a λ_c a₂ b₂

| R | 567 | 775 | 30.89 | 21.77 | 5.9 | 0.527 | 0.371596 | 489 | 1.122 | -0.086 | 0.57 | 27.5 | 14.2 | 31.0 | 27 | 1.2 | 53.7 | 54.3 | 54.7 | 54.1 | |
|---|-----|-----|-------|-------|-------|-------|----------|------|-------|--------|-------|-------|-------|------|------|------|------|------|------|------|------|
| G | 493 | 775 | 38.44 | 46.11 | 8.79 | 0.411 | 0.493570 | 463 | 0.61 | -0.061 | 0.237 | -0.5 | 33.1 | 33.1 | 9.1 | 2.5 | 73.6 | 74.3 | 73.3 | 69.3 | |
| G | 493 | 567 | 12.68 | 29.74 | 8.77 | 0.247 | 0.58 | 535 | 0.237 | -0.094 | 0.458 | -28.1 | 18.8 | 33.9 | 146 | 1.6 | 61.4 | 62.0 | 62.4 | 60.7 | |
| C | 380 | 567 | 20.43 | 32.22 | 52.9 | 0.193 | 0.305489 | 596 | 0.273 | -0.525 | 0.385 | 27.5 | -14.2 | 31.0 | 207 | 1.79 | 63.5 | 64.1 | 64.4 | 62.3 | |
| B | 380 | 493 | 12.87 | 7.88 | 50.0 | 0.181 | 0.111463 | 570 | 0.646 | -2.03 | 1.682 | 15 | -33.1 | 33.1 | 271 | 6.4 | 43 | 33.7 | 34.0 | 29.4 | 32.7 |
| M | 507 | 493 | 38.63 | 24.25 | 50.02 | 0.342 | 0.214535 | 535 | 1.08 | -0.659 | 0.559 | 24.1 | -18.8 | 33.9 | 326 | 1.34 | 56.3 | 56.9 | 57.4 | 56.4 | |
| W | 380 | 775 | 51.32 | 54.0 | 58.8 | 0.312 | 0.329 | 546 | 0.616 | -0.348 | 0.01 | 0.0 | 0.0 | 0.0 | 1.30 | 78.4 | 79.2 | 77.3 | 72.1 | | |
| N | 380 | 775 | 5.7 | 6.0 | 6.53 | 0.312 | 0.329 | 6.0 | 0.616 | -0.348 | 0.01 | 0.0 | 0.0 | 0.0 | 1.30 | 33.9 | 29.4 | 29.7 | 22.6 | 27.8 | |
| U | 380 | 775 | 17.1 | 18.0 | 19.6 | 0.312 | 0.329 | 18.0 | 0.616 | -0.348 | 0.01 | 0.0 | 0.0 | 0.0 | 1.30 | 49.5 | 50.0 | 50.0 | 50.0 | | |

fige81-5a

-74 Parameter:

$$L^*_{TUr} \text{ \& Name}$$

$$Y_R = Y/18,$$

$$L^*_{TUr} = 50$$

$$L^*_{TUr} = 100$$

$$L^*_{TUr} = 47$$

$$L^*_{TUr} = 55R_d$$

$$L^*_{TUr} = 66R_d$$

$$L^*_{TUr} = 78C_d$$

$$L^*_{TUr} = 64C_d$$

$$L^*_{TUr} = 90$$

$$L^*_{TUr} = 100$$

$$L^*_{TUr} = 4$$

$$L^*_{TUr} = 50$$

$$L^*_{TUr} = 50$$

$$L^*_{TUr} = 50$$

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$$L^*_{TUr} = 50$$

$XYZ_W=100.93, 100.0, 64.68$

$$A_2 = 2.5 (a_2 - a_{2n}) Y$$

$$B_2 = 2.5 (b_2 - b_{2n}) Y$$

$$a_2 = a_{20} [(x - x_c) / y]$$

$$b_2 = b_{20} B_2 [z / y]$$

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

$$x_c = 0.110, B_2 = 1.300$$

$$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$$

6 Ostwald-Farben (o), $C_{AB2} = \text{const}$

Farbenraum (C_{AB2}, L^*_{TUr})

$$L^*_{TUr} = 50 + 40[Y_R \log(S)]$$

Lichtart P40, $Y_W=54.0, Y_N=6.0$

Name Bereich X Z x N_y λ_a λ_c a₂ b₂

| R | 573 | 775 | 35.77 | 23.17 | 3.51 | 0.572 | 0.371600 <th>493</th> <th>1.247</th> <th>-0.078</th> <th>0.589 <th>30.7</th> <th>14.9</th> <th>34.1 <th>25</th> <th>1.28</th> <th>55.2</th> <th>55.8</th> <th>56.2</th> <th>55.4</th> </th></th> | 493 | 1.247 | -0.078 | 0.589 <th>30.7</th> <th>14.9</th> <th>34.1 <th>25</th> <th>1.28</th> <th>55.2</th> <th>55.8</th> <th>56.2</th> <th>55.4</th> </th> | 30.7 | 14.9 | 34.1 <th>25</th> <th>1.28</th> <th>55.2</th> <th>55.8</th> <th>56.2</th> <th>55.4</th> | 25 | 1.28 | 55.2 | 55.8 | 56.2 | 55.4 |
|---|-----|-----|-------|-------|-------|-------|--|------|-------|--|--|-------|-------|--|------|------|------|------|------|------|
| G | 498 | 775 | 44.58 | 46.59 | 5.24 | 0.462 | 0.483576 | 468 | 0.729 | -0.058 <td>0.78</td> <td>1.4</td> <td>32.3</td> <td>32.3</td> <td>8.7</td> <td>2.58</td> <td>73.9</td> <td>74.6</td> <td>73.6</td> <td>69.5</td> | 0.78 | 1.4 | 32.3 | 32.3 | 8.7 | 2.58 | 73.9 | 74.6 | 73.6 | 69.5 |
| G | 498 | 573 | 14.26 | 28.81 | 5.22 | 0.295 | 0.596540 | 540 | 0.31 | -0.094 | 0.478 | -29.2 | 17.4 | 34.0 | 149 | 1.6 | 60.6 | 61.2 | 61.6 | 60.0 |
| C | 380 | 573 | 18.72 | 30.82 | 31.41 | 0.231 | 0.38 | 493 | 0.600 | -0.529 | 0.443 | -30.7 | -14.9 | 34.1 | 205 | 1.7 | 62.6 | 63.2 | 63.3 | 61.4 |
| B | 380 | 498 | 9.94 | 7.4 | 29.68 | 0.21 | 0.157468 | 576 | 0.64 | -2.083 | 1.748 | -1.4 | -32.3 | 33.2 | 267 | 6.01 | 32.7 | 33.0 | 27.9 | 31.6 |
| M | 573 | 498 | 40.24 | 25.18 | 29.7 | 0.423 | 0.264540 | 540 | 1.182 | -0.613 | 0.541 | 29.2 | -17.4 | 34.0 | 329 | 1.39 | 57.2 | 57.8 | 58.3 | 57.2 |
| W | 380 | 775 | 54.5 | 54.0 | 34.93 | 0.379 | 0.376 | 546 | 0.717 | -0.336 | 0.01 | 0.0 | 0.0 | 0.0 | 1.30 | 78.4 | 79.2 | 77.3 | 72.1 | |
| N | 380 | 775 | 6.05 | 6.0 | 6.88 | 0.379 | 0.376 | 6.0 | 0.717 | -0.336 | 0.01 | 0.0 | 0.0 | 0.0 | 1.30 | 33.9 | 29.4 | 29.7 | 22.6 | 27.8 |
| U | 380 | 775 | 18.16 | 18.0 | 11.64 | 0.379 | 0.376 | 18.0 | 0.717 | -0.336 | 0.01 | 0.0 | 0.0 | 0.0 | 1.30 | 49.5 | 50.0 | 50.0 | 50.0 | |

fige81-7a

$XYZ_W=96.42, 100.0, 82.49$

$$A_2 = 2.5 (a_2 - a_{2n}) Y$$

$$B_2 = 2.5 (b_2 - b_{2n}) Y$$

$$a_2 = a_{20} [(x - x_c) / y]$$

$$b_2 = b_{20} B_2 [z / y]$$

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

$$x_c = 0.110, B_2 = 1.000$$

$$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$$

6 Ostwald-Farben (o), $C_{AB2} = \text{const}$

Farbenraum (C_{AB2}, L^*_{TUr})

$$L^*_{TUr} = 50 + 40[Y_R \log(S)]$$

Lichtart D50, $Y_W=54.0, Y_N=6.0$

Name Bereich X Z x N_y λ_a λ_c a₂ b₂

| R | 570 | 775 | 33.24 <th>22.67 <th>4.47 <th>0.55 <th>0.375598 <th>491 <th>1.172</th> <th>-0.078</th> <th>0.73 <th>29.2</th> <th>14.2</th> <th>32.5</th> <th>25 <th>1.25 <th>54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th></th></th></th></th></th></th></th></th></th> | 22.67 <th>4.47 <th>0.55 <th>0.375598 <th>491 <th>1.172</th> <th>-0.078</th> <th>0.73 <th>29.2</th> <th>14.2</th> <th>32.5</th> <th>25 <th>1.25 <th>54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th></th></th></th></th></th></th></th></th> | 4.47 <th>0.55 <th>0.375598 <th>491 <th>1.172</th> <th>-0.078</th> <th>0.73 <th>29.2</th> <th>14.2</th> <th>32.5</th> <th>25 <th>1.25 <th>54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th></th></th></th></th></th></th></th> | 0.55 <th>0.375598 <th>491 <th>1.172</th> <th>-0.078</th> <th>0.73 <th>29.2</th> <th>14.2</th> <th>32.5</th> <th>25 <th>1.25 <th>54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th></th></th></th></th></th></th> | 0.375598 <th>491 <th>1.172</th> <th>-0.078</th> <th>0.73 <th>29.2</th> <th>14.2</th> <th>32.5</th> <th>25 <th>1.25 <th>54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th></th></th></th></th></th> | 491 <th>1.172</th> <th>-0.078</th> <th>0.73 <th>29.2</th> <th>14.2</th> <th>32.5</th> <th>25 <th>1.25 <th>54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th></th></th></th></th> | 1.172 | -0.078 | 0.73 <th>29.2</th> <th>14.2</th> <th>32.5</th> <th>25 <th>1.25 <th>54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th></th></th></th> | 29.2 | 14.2 | 32.5 | 25 <th>1.25 <th>54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th></th></th> | 1.25 <th>54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th></th> | 54.7 <th>55.2</th> <th>55.7 <th>54.9</th> </th> | 55.2 | 55.7 <th>54.9</th> | 54.9 |
|---|-----|-----|---|--|---|---|---|---|-------|--------|---|-------|-------|------|---|---|---|------|--------------------|------|
| G | 496 | 775 | 41.1 | 46.02 | 6.29 | 0.44 | 0.492573 | 468 | 0.669 | -0.054 | 0.25 | 1.4 | 31.6 | 31.7 | 8.7 | 2.55 | 73.5 | 74.3 | 73.3 | 69.3 |
| G | 496 | 570 | 13.07 | 28.74 | 6.27 | 0.271 | 0.597538 | 538 | 0.27 | -0.087 | 0.456 | -27.7 | 17.4 | 32.8 | 147 | 1.59 | 60.5 | 61.1 | 61.6 | 60.0 |
| C | 380 | 570 | 18.82 | 31.32 | 40.07 | 0.208 | 0.347491 | 598 | 0.284 | -0.511 | 0.415 | -29.2 | -14.2 | 32.5 | 205 | 1.44 | 62.7 | 63.4 | 63.7 | 61.8 |
| B | 380 | 496 | 10.96 | 7.97 | 38.25 | 0.191 | 0.139468 | 573 | 0.585 | -1.917 | 1.589 | -1.4 | -31.6 | 31.7 | 267 | 6.04 | 33.9 | 34.2 | 29.7 | 33.0 |
| M | 570 | 496 | 38.99 | 25.25 | 38.27 | 0.38 | 0.246538 | 538 | 1.097 | -0.606 | 0.519 | 27.7 | -17.4 | 32.8 | 327 | 1.4 | 57.3 | 57.9 | 58.4 | 57.3 |
| W | 380 | 775 | 52.06 | 54.0 | 44.54 | 0.345 | 0.358 | 546 | 0.657 | -0.329 | 0.01 | 0.0 | 0.0 | 0.0 | 1.30 | 78.4 | 79.2 | 77.3 | 72.1 | |
| N | 380 | 775 | 5.78 | 6.0 | 4.94 | 0.345 | 0.358 | 6.0 | 0.657 | -0.329 | 0.01 | 0.0 | 0.0 | 0.0 | 1.30 | 33.9 | 29.4 | 29.7 | 22.6 | 27.8 |
| U | 380 | 775 | 17.35 | 18.0 | 14.84 | 0.345 | 0.358 | 18.0 | 0.657 | -0.329 | 0.01 | 0.0 | 0.0 | 0.0 | 1.30 | 49.5 | 50.0 | 50.0 | 50.0 | |

fige81-6a

$XYZ_W=109.84, 99.99, 35.58$

$$A_2 = 2.5 (a_2 - a_{2n}) Y$$

$$B_2 = 2.5 (b_2 - b_{2n}) Y$$

$$a_2 = a_{20} [(x - x_c) / y]$$

$$b_2 = b_{20} B_2 [z / y]$$

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

$$x_c = 0.110, B_2 = 2.500$$

$$C_{AB2} = [A_2^2 + B_2^2]^{1/2}$$

6 Ostwald-Farben (o), $C_{AB2} = \text{const}$

Farbenraum (C_{AB2}, L^*_{TUr})

$$L^*_{TUr} = 50 + 40[Y_R \log(S)]$$

Lichtart A00, $Y_W=54.0, Y_N=6.0$

Name Bereich X Z x N_y λ_a λ_c a₂ b₂

| R | 579 | 775 | 40.44 <th>23.98 <th>1.93 <th>0.609 <th>0.361605 <th>499 <th>1.381</th> <th>-0.08</th> <th>0.618 <th>33.1</th> <th>16.4</th> <th>37.0</th> <th>26 <th>1.33 <th>56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th></th></th></th></th></th></th></th></th></th> | 23.98 <th>1.93 <th>0.609 <th>0.361605 <th>499 <th>1.381</th> <th>-0.08</th> <th>0.618 <th>33.1</th> <th>16.4</th> <th>37.0</th> <th>26 <th>1.33 <th>56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th></th></th></th></th></th></th></th></th> | 1.93 <th>0.609 <th>0.361605 <th>499 <th>1.381</th> <th>-0.08</th> <th>0.618 <th>33.1</th> <th>16.4</th> <th>37.0</th> <th>26 <th>1.33 <th>56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th></th></th></th></th></th></th></th> | 0.609 <th>0.361605 <th>499 <th>1.381</th> <th>-0.08</th> <th>0.618 <th>33.1</th> <th>16.4</th> <th>37.0</th> <th>26 <th>1.33 <th>56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th></th></th></th></th></th></th> | 0.361605 <th>499 <th>1.381</th> <th>-0.08</th> <th>0.618 <th>33.1</th> <th>16.4</th> <th>37.0</th> <th>26 <th>1.33 <th>56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th></th></th></th></th></th> | 499 <th>1.381</th> <th>-0.08</th> <th>0.618 <th>33.1</th> <th>16.4</th> <th>37.0</th> <th>26 <th>1.33 <th>56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th></th></th></th></th> | 1.381 | -0.08 | 0.618 <th>33.1</th> <th>16.4</th> <th>37.0</th> <th>26 <th>1.33 <th>56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th></th></th></th> | 33.1 | 16.4 | 37.0 | 26 <th>1.33 <th>56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th></th></th> | 1.33 <th>56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th></th> | 56.0 <th>56.6 <th>57.1 <th>56.1</th> </th></th> | 56.6 <th>57.1 <th>56.1</th> </th> | 57.1 <th>56.1</th> | 56.1 |
|---|-----|-----|--|---|--|--|---|---|-------|--------|--|------|------|------|---|---|---|-----------------------------------|--------------------|------|
| G | 504 | 775 | 51.06 | 46.86 | 2.93 | 0.506 | 0.464881 | 474 | 0.852 | -0.062 | 0.294 | 2.8 | 34.3 | 34.4 | 8.5 | 2.6 | 74.1 | 74.8 | 73.7 | 69.6 |
| G | 504 | | | | | | | | | | | | | | | | | | | |