

9stufige Grauskalierung zwischen $L^*_{0aN}=3.6$ und $L^*_{0aW}=95.9$, $Y_{0ref}=3.6$, Normierung Grau U

$L^*_{0aN}=3.6, L^*_{0aU}=49.8, L^*_{0aW}=96.0, Y_{0aN}=0.4, Y_{0aU}=18.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=225.0$
 $L^*_{taN}=21.4, L^*_{taU}=49.8, L^*_{taW}=90.9, Y_{taN}=3.3, Y_{taU}=18.2, Y_{taW}=78.2, C_{taY}=Y_{taW}:Y_{taN}=23.4$

Regularitätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$ mit $Y \geq 0,882, Y_n=100$

| L* _{CIELAB} n0.i | angestrebte Ausgabe | | | | reale Ausgabe | | | | linearisierte Ausgabe | | | |
|------------------------------|---------------------|------------------|-----------------|-----------------|------------------|-------------------|------------------|-----------------|-----------------------|------------------|-------------------|--|
| | L* _{0a} | L* _{0r} | Y _{0a} | Y _{0r} | L* _{ta} | ΔL^*_{ta} | L* _{tr} | Y _{ta} | $(L^*_{tr})^{1/1.3}$ | L* _{la} | ΔL^*_{la} | |
| 100 | 9 | 96.0 | 1.0 | 90.0 | 1.0 | 90.9 | 1.0 | 78.2 | 1.0 | 90.9 | 8.2 | |
| | 8 | 84.4 | 0.875 | 64.9 | 0.72 | 80.3 | 0.848 | 57.2 | 0.881 | 82.6 | 8.5 | |
| 75 | 7 | 72.9 | 0.75 | 45.0 | 0.498 | 69.9 | 0.698 | 40.6 | 0.759 | 74.1 | 8.7 | |
| | 6 | 61.3 | 0.625 | 29.6 | 0.326 | 59.7 | 0.551 | 27.8 | 0.633 | 65.4 | 9.0 | |
| 50 | 5 | 49.8 | 0.5 | 18.2 | 0.199 | 49.8 | 0.409 | 18.2 | 0.504 | 56.4 | 9.2 | |
| | 4 | 38.2 | 0.375 | 10.2 | 0.11 | 40.5 | 0.275 | 11.5 | 0.372 | 47.2 | 9.1 | |
| 25 | 3 | 26.7 | 0.25 | 5.0 | 0.051 | 32.2 | 0.156 | 7.2 | 0.24 | 38.1 | 8.5 | |
| | 2 | 15.2 | 0.125 | 1.9 | 0.017 | 25.6 | 0.061 | 4.6 | 0.118 | 29.5 | 8.2 | |
| 0 | 1 | 3.6 | 0.0 | 0.4 | 0.0 | 21.4 | 0.0 | 3.3 | 0.0 | 21.4 | 8.2 | |

$\Delta L^*_{0a}=11.5 \quad (i=1,2,\dots,8)$ Normierung: $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

egp30-3n

9stufige Grauskalierung zwischen $L^*_{0aN}=3.6$ und $L^*_{0aW}=95.9$, $Y_{0ref}=0.4$, Normierung Grau U

$L^*_{0aN}=3.6, L^*_{0aU}=49.8, L^*_{0aW}=96.0, Y_{0aN}=0.4, Y_{0aU}=18.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=225.0$
 $L^*_{taN}=7.1, L^*_{taU}=49.8, L^*_{taW}=95.3, Y_{taN}=0.8, Y_{taU}=18.2, Y_{taW}=88.5, C_{taY}=Y_{taW}:Y_{taN}=113.0$

Regularitätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$ mit $Y \geq 0,882, Y_n=100$

| L* _{CIELAB} n0.i | angestrebte Ausgabe | | | | reale Ausgabe | | | | linearisierte Ausgabe | | | |
|------------------------------|---------------------|------------------|-----------------|-----------------|------------------|-------------------|------------------|-----------------|-----------------------|------------------|-------------------|--|
| | L* _{0a} | L* _{0r} | Y _{0a} | Y _{0r} | L* _{ta} | ΔL^*_{ta} | L* _{tr} | Y _{ta} | $(L^*_{tr})^{1/1.05}$ | L* _{la} | ΔL^*_{la} | |
| 100 | 9 | 96.0 | 1.0 | 90.0 | 1.0 | 95.3 | 1.0 | 88.5 | 1.0 | 95.3 | 10.9 | |
| | 8 | 84.4 | 0.875 | 64.9 | 0.72 | 83.9 | 0.871 | 63.9 | 0.876 | 84.4 | 11.0 | |
| 75 | 7 | 72.9 | 0.75 | 45.0 | 0.498 | 72.5 | 0.741 | 44.4 | 0.752 | 73.4 | 11.0 | |
| | 6 | 61.3 | 0.625 | 29.6 | 0.326 | 61.1 | 0.612 | 29.4 | 0.626 | 62.4 | 11.1 | |
| 50 | 5 | 49.8 | 0.5 | 18.2 | 0.199 | 49.8 | 0.484 | 18.2 | 0.5 | 51.3 | 11.2 | |
| | 4 | 38.2 | 0.375 | 10.2 | 0.11 | 38.6 | 0.357 | 10.4 | 0.374 | 40.1 | 11.2 | |
| 25 | 3 | 26.7 | 0.25 | 5.0 | 0.051 | 27.5 | 0.231 | 5.3 | 0.248 | 28.9 | 10.9 | |
| | 2 | 15.2 | 0.125 | 1.9 | 0.017 | 16.9 | 0.112 | 2.3 | 0.124 | 18.0 | 10.9 | |
| 0 | 1 | 3.6 | 0.0 | 0.4 | 0.0 | 7.1 | 0.0 | 0.8 | 0.0 | 7.1 | 10.9 | |

$\Delta L^*_{0a}=11.5 \quad (i=1,2,\dots,8)$ Normierung: $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

egp30-7n

9stufige Grauskalierung zwischen $L^*_{0aN}=3.6$ und $L^*_{0aW}=95.9$, $Y_{0ref}=0.9$, Normierung Grau U

$L^*_{0aN}=3.6, L^*_{0aU}=49.8, L^*_{0aW}=96.0, Y_{0aN}=0.4, Y_{0aU}=18.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=225.0$
 $L^*_{taN}=10.8, L^*_{taU}=49.8, L^*_{taW}=94.6, Y_{taN}=1.2, Y_{taU}=18.2, Y_{taW}=86.6, C_{taY}=Y_{taW}:Y_{taN}=69.9$

Regularitätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$ mit $Y \geq 0,882, Y_n=100$

| L* _{CIELAB} n0.i | angestrebte Ausgabe | | | | reale Ausgabe | | | | linearisierte Ausgabe | | | |
|------------------------------|---------------------|------------------|-----------------|-----------------|------------------|-------------------|------------------|-----------------|-----------------------|------------------|-------------------|--|
| | L* _{0a} | L* _{0r} | Y _{0a} | Y _{0r} | L* _{ta} | ΔL^*_{ta} | L* _{tr} | Y _{ta} | $(L^*_{tr})^{1/1.11}$ | L* _{la} | ΔL^*_{la} | |
| 100 | 9 | 96.0 | 1.0 | 90.0 | 1.0 | 94.6 | 1.0 | 86.6 | 1.0 | 94.6 | 10.2 | |
| | 8 | 84.4 | 0.875 | 64.9 | 0.72 | 83.3 | 0.865 | 62.7 | 0.878 | 84.3 | 10.3 | |
| 75 | 7 | 72.9 | 0.75 | 45.0 | 0.498 | 72.1 | 0.731 | 43.7 | 0.754 | 74.0 | 10.5 | |
| | 6 | 61.3 | 0.625 | 29.6 | 0.326 | 60.9 | 0.598 | 29.1 | 0.629 | 63.5 | 10.6 | |
| 50 | 5 | 49.8 | 0.5 | 18.2 | 0.199 | 49.8 | 0.465 | 18.2 | 0.502 | 52.9 | 10.7 | |
| | 4 | 38.2 | 0.375 | 10.2 | 0.11 | 38.9 | 0.335 | 10.6 | 0.373 | 42.1 | 10.8 | |
| 25 | 3 | 26.7 | 0.25 | 5.0 | 0.051 | 28.4 | 0.21 | 5.6 | 0.245 | 31.4 | 10.4 | |
| | 2 | 15.2 | 0.125 | 1.9 | 0.017 | 18.8 | 0.095 | 2.7 | 0.12 | 20.9 | 10.1 | |
| 0 | 1 | 3.6 | 0.0 | 0.4 | 0.0 | 10.8 | 0.0 | 1.2 | 0.0 | 10.8 | 10.1 | |

$\Delta L^*_{0a}=11.5 \quad (i=1,2,\dots,8)$ Normierung: $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

egp31-3n

9stufige Grauskalierung zwischen $L^*_{0aN}=3.6$ und $L^*_{0aW}=95.9$, $Y_{0ref}=1.8$, Normierung Grau U

$L^*_{0aN}=3.6, L^*_{0aU}=49.8, L^*_{0aW}=96.0, Y_{0aN}=0.4, Y_{0aU}=18.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=225.0$
 $L^*_{taN}=15.5, L^*_{taU}=49.8, L^*_{taW}=93.3, Y_{taN}=2.0, Y_{taU}=18.2, Y_{taW}=83.6, C_{taY}=Y_{taW}:Y_{taN}=41.7$

Regularitätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$ mit $Y \geq 0,882, Y_n=100$

| L* _{CIELAB} n0.i | angestrebte Ausgabe | | | | reale Ausgabe | | | | linearisierte Ausgabe | | | |
|------------------------------|---------------------|------------------|-----------------|-----------------|------------------|-------------------|------------------|-----------------|-----------------------|------------------|-------------------|--|
| | L* _{0a} | L* _{0r} | Y _{0a} | Y _{0r} | L* _{ta} | ΔL^*_{ta} | L* _{tr} | Y _{ta} | $(L^*_{tr})^{1/1.19}$ | L* _{la} | ΔL^*_{la} | |
| 100 | 9 | 96.0 | 1.0 | 90.0 | 1.0 | 93.3 | 1.0 | 83.6 | 1.0 | 93.3 | 9.4 | |
| | 8 | 84.4 | 0.875 | 64.9 | 0.72 | 82.2 | 0.858 | 60.7 | 0.879 | 83.9 | 9.5 | |
| 75 | 7 | 72.9 | 0.75 | 45.0 | 0.498 | 71.3 | 0.717 | 42.6 | 0.757 | 74.3 | 9.7 | |
| | 6 | 61.3 | 0.625 | 29.6 | 0.326 | 60.4 | 0.578 | 28.6 | 0.631 | 64.6 | 10.0 | |
| 50 | 5 | 49.8 | 0.5 | 18.2 | 0.199 | 49.8 | 0.441 | 18.2 | 0.503 | 54.6 | 10.1 | |
| | 4 | 38.2 | 0.375 | 10.2 | 0.11 | 39.5 | 0.309 | 10.9 | 0.373 | 44.5 | 10.1 | |
| 25 | 3 | 26.7 | 0.25 | 5.0 | 0.051 | 29.9 | 0.185 | 6.2 | 0.242 | 34.3 | 9.7 | |
| | 2 | 15.2 | 0.125 | 1.9 | 0.017 | 21.6 | 0.078 | 3.4 | 0.118 | 24.7 | 9.2 | |
| 0 | 1 | 3.6 | 0.0 | 0.4 | 0.0 | 15.5 | 0.0 | 2.0 | 0.0 | 15.5 | 9.2 | |

$\Delta L^*_{0a}=11.5 \quad (i=1,2,\dots,8)$ Normierung: $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

egp31-7n

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