

| Güte (STRESS-Werte) für visuelle Schwellen-Farbdifferenzdaten (VCD) |                                                                       |                                   |      |      |      |                                    |                                  |                            |                                |                             |
|---------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------|------|------|------|------------------------------------|----------------------------------|----------------------------|--------------------------------|-----------------------------|
| Datensatz                                                           | Berechnungen mit Daten für graues Umfeld (D65, P40) und 0,1 < Y < 190 |                                   |      |      |      |                                    |                                  |                            |                                |                             |
|                                                                     | Farbabstand $\Delta E^*_{\text{CIELAB}}$                              |                                   |      |      |      | Farbabstandsformel und STRESS-Wert |                                  |                            |                                |                             |
| Name                                                                | Paare                                                                 | $\Delta E^*_{\text{ab}}$ -Bereich | min  | max  | mean | CIELAB<br>$\Delta E^*_{\text{ab}}$ | CMC<br>$\Delta E^*_{\text{CMs}}$ | CIE94<br>$\Delta E^*_{94}$ | CIEDE2000<br>$\Delta E^*_{00}$ | LABJND<br>$\Delta E^*_{85}$ |
| RI_0330                                                             | 330                                                                   | 0.0 bis <99.0                     | 0.05 | 4.85 | 0.9  | 61.0                               | 51.0                             | 47.7                       | 52.3                           | 30.2                        |
| KI_0392                                                             | 392                                                                   | 0.0 bis <99.0                     | 0.09 | 2.09 | 0.41 | 57.1                               | 56.0                             | 49.8                       | 49.8                           | 48.6                        |
| AV_0132                                                             | 132                                                                   | 0.0 bis <99.0                     | 0.17 | 2.29 | 0.75 | 47.8                               | 31.9                             | 47.4                       | 43.9                           | 53.6                        |
| RI_0330                                                             | 224                                                                   | 0.0 bis <1.0                      | 0.05 | 0.99 | 0.55 | 47.0                               | 53.9                             | 50.1                       | 58.2                           | 28.1                        |
| KI_0392                                                             | 375                                                                   | 0.0 bis <1.0                      | 0.09 | 0.99 | 0.37 | 47.7                               | 51.2                             | 44.8                       | 45.2                           | 44.8                        |
| AV_0132                                                             | 97                                                                    | 0.0 bis <1.0                      | 0.17 | 0.96 | 0.56 | 36.8                               | 26.7                             | 30.4                       | 38.5                           | 48.1                        |
| RI_0330                                                             | 305                                                                   | 0.0 bis <2.0                      | 0.05 | 1.89 | 0.74 | 49.1                               | 52.5                             | 48.9                       | 54.0                           | 30.2                        |
| KI_0392                                                             | 391                                                                   | 0.0 bis <2.0                      | 0.09 | 1.76 | 0.41 | 55.9                               | 56.1                             | 49.9                       | 49.9                           | 48.6                        |
| AV_0132                                                             | 130                                                                   | 0.0 bis <2.0                      | 0.17 | 1.96 | 0.73 | 45.5                               | 31.7                             | 42.2                       | 44.0                           | 52.8                        |
| RI_0330                                                             | 87                                                                    | 0.0 bis <0.5                      | 0.05 | 0.49 | 0.23 | 50.8                               | 56.8                             | 50.4                       | 61.5                           | 29.1                        |
| KI_0392                                                             | 294                                                                   | 0.0 bis <0.5                      | 0.09 | 0.49 | 0.28 | 31.3                               | 38.9                             | 30.4                       | 35.5                           | 36.8                        |
| AV_0132                                                             | 41                                                                    | 0.0 bis <0.5                      | 0.17 | 0.49 | 0.34 | 28.3                               | 27.3                             | 27.7                       | 37.9                           | 40.3                        |
| RI_0330                                                             | 137                                                                   | 0.5 bis <1.0                      | 0.5  | 0.99 | 0.76 | 18.8                               | 36.6                             | 29.9                       | 38.3                           | 21.8                        |
| KI_0392                                                             | 81                                                                    | 0.5 bis <1.0                      | 0.5  | 0.99 | 0.7  | 19.9                               | 35.9                             | 24.9                       | 30.3                           | 26.3                        |
| AV_0132                                                             | 56                                                                    | 0.5 bis <1.0                      | 0.5  | 0.96 | 0.71 | 19.5                               | 18.9                             | 15.9                       | 26.4                           | 39.7                        |
| RI_0330                                                             | 67                                                                    | 1.0 bis <1.5                      | 1.01 | 1.46 | 1.18 | 9.7                                | 41.4                             | 35.5                       | 39.3                           | 22.3                        |
| KI_0392                                                             | 12                                                                    | 1.0 bis <1.5                      | 1.0  | 1.48 | 1.22 | 12.6                               | 48.0                             | 36.1                       | 48.5                           | 29.6                        |
| AV_0132                                                             | 28                                                                    | 1.0 bis <1.5                      | 1.0  | 1.47 | 1.17 | 12.7                               | 23.1                             | 22.8                       | 21.5                           | 56.5                        |
| RI_0330                                                             | 14                                                                    | 1.5 bis <2.0                      | 1.5  | 1.89 | 1.69 | 7.5                                | 44.5                             | 35.3                       | 35.1                           | 16.2                        |
| KI_0392                                                             | 4                                                                     | 1.5 bis <2.0                      | 1.61 | 1.76 | 1.67 | 3.3                                | 25.3                             | 16.9                       | 27.2                           | 49.6                        |
| AV_0132                                                             | 5                                                                     | 1.5 bis <2.0                      | 1.51 | 1.96 | 1.7  | 10.2                               | 14.9                             | 23.5                       | 10.5                           | 56.1                        |
| Datensätze: RI=RICHTER, KI=KITTELMANN, AV=AVRAMOPOULOS              |                                                                       |                                   |      |      |      |                                    |                                  |                            |                                |                             |

| Güte (STRESS-Werte) für visuelle Schwellen-Farbdifferenzdaten (VCD) |                                                                       |                             |      |      |      |                     |                                    |                    |                        |                     |
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| Datensatz                                                           | Berechnungen mit Daten für graues Umfeld (D65, P40) und 0,1 < Y < 190 |                             |      |      |      |                     |                                    |                    |                        |                     |
|                                                                     | Farbabstand $\Delta E^*_{CIEDE2000}$                                  |                             |      |      |      |                     | Farbabstandsformel und STRESS-Wert |                    |                        |                     |
| Name                                                                | Paare                                                                 | $\Delta E^*_{C00}$ -Bereich | min  | max  | mean | CIELAB $\Delta E^*$ | CMC $\Delta E^*$                   | CIE94 $\Delta E^*$ | CIEDE2000 $\Delta E^*$ | LABJND $\Delta E^*$ |
| RI_0330                                                             | 330                                                                   | 0.0 bis <99.0               | 0.05 | 4.85 | 0.9  | 61.0                | 51.0                               | 47.7               | 52.3                   | 30.2                |
| KI_0392                                                             | 392                                                                   | 0.0 bis <99.0               | 0.09 | 2.09 | 0.41 | 57.1                | 56.0                               | 49.8               | 49.8                   | 48.6                |
| AV_0132                                                             | 132                                                                   | 0.0 bis <99.0               | 0.17 | 2.29 | 0.75 | 47.8                | 31.9                               | 47.4               | 43.9                   | 53.6                |
| RI_0330                                                             | 273                                                                   | 0.0 bis <1.0                | 0.05 | 3.78 | 0.84 | 62.0                | 49.5                               | 47.5               | 51.8                   | 31.1                |
| KI_0392                                                             | 389                                                                   | 0.0 bis <1.0                | 0.09 | 2.09 | 0.41 | 56.2                | 51.5                               | 46.3               | 45.5                   | 47.9                |
| AV_0132                                                             | 120                                                                   | 0.0 bis <1.0                | 0.17 | 2.29 | 0.7  | 47.9                | 28.6                               | 47.6               | 40.8                   | 51.4                |
| RI_0330                                                             | 330                                                                   | 0.0 bis <2.0                | 0.05 | 4.85 | 0.9  | 61.0                | 51.0                               | 47.7               | 52.3                   | 30.2                |
| KI_0392                                                             | 392                                                                   | 0.0 bis <2.0                | 0.09 | 2.09 | 0.41 | 57.1                | 56.0                               | 49.8               | 49.8                   | 48.6                |
| AV_0132                                                             | 132                                                                   | 0.0 bis <2.0                | 0.17 | 2.29 | 0.75 | 47.8                | 31.9                               | 47.4               | 43.9                   | 53.6                |
| RI_0330                                                             | 144                                                                   | 0.0 bis <0.5                | 0.05 | 1.54 | 0.49 | 60.9                | 46.5                               | 45.8               | 49.6                   | 34.6                |
| KI_0392                                                             | 343                                                                   | 0.0 bis <0.5                | 0.09 | 2.09 | 0.35 | 54.1                | 42.2                               | 39.8               | 36.0                   | 48.3                |
| AV_0132                                                             | 71                                                                    | 0.0 bis <0.5                | 0.17 | 0.96 | 0.5  | 39.8                | 28.1                               | 28.7               | 30.1                   | 42.3                |
| RI_0330                                                             | 129                                                                   | 0.5 bis <1.0                | 0.49 | 3.78 | 1.23 | 49.3                | 21.2                               | 18.7               | 18.3                   | 24.5                |
| KI_0392                                                             | 46                                                                    | 0.5 bis <1.0                | 0.41 | 1.76 | 0.8  | 34.4                | 23.4                               | 16.5               | 18.1                   | 27.4                |
| AV_0132                                                             | 49                                                                    | 0.5 bis <1.0                | 0.49 | 2.29 | 0.99 | 36.1                | 23.2                               | 41.4               | 19.3                   | 53.5                |
| RI_0330                                                             | 54                                                                    | 1.0 bis <1.5                | 0.69 | 4.85 | 1.17 | 55.0                | 17.5                               | 17.4               | 8.3                    | 24.2                |
| KI_0392                                                             | 2                                                                     | 1.0 bis <1.5                | 1.13 | 1.63 | 1.38 | 17.7                | 3.5                                | 8.3                | 10.0                   | 23.2                |
| AV_0132                                                             | 12                                                                    | 1.0 bis <1.5                | 1.03 | 1.96 | 1.29 | 21.4                | 15.6                               | 10.6               | 5.6                    | 66.8                |
| RI_0330                                                             | 3                                                                     | 1.5 bis <2.0                | 1.13 | 1.75 | 1.41 | 17.9                | 17.6                               | 21.2               | 3.1                    | 36.8                |
| KI_0392                                                             | 1                                                                     | 1.5 bis <2.0                | 1.39 | 1.39 | 1.39 | 0.1                 | 0.1                                | 0.1                | 0.1                    | 0.1                 |
| AV_0132                                                             | 0                                                                     |                             |      |      |      |                     |                                    |                    |                        |                     |
| Datensätze: RI=RICHTER, KI=KITTELMANN, AV=AVRAMOPOULOS              |                                                                       |                             |      |      |      |                     |                                    |                    |                        |                     |

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| Datensatz                                                           | Berechnungen mit Daten für graues Umfeld (D65, P40) und $0,1 < Y < 190$ |                             |      |      |      |                                    |                     |                       |                           |                        |
|                                                                     | Farbabstand $\Delta E^*_{LABJND}$                                       |                             |      |      |      | Farbabstandsformel und STRESS-Wert |                     |                       |                           |                        |
| Name                                                                | Paare                                                                   | $\Delta E^*_{C85}$ -Bereich | min  | max  | mean | CIELAB<br>$\Delta E^*$             | CMC<br>$\Delta E^*$ | CIE94<br>$\Delta E^*$ | CIEDE2000<br>$\Delta E^*$ | LABJND<br>$\Delta E^*$ |
| RI_0330                                                             | 330                                                                     | 0.0 bis <99.0               | 0.05 | 4.85 | 0.9  | 61.0                               | 51.0                | 47.7                  | 52.3                      | 30.2                   |
| KI_0392                                                             | 392                                                                     | 0.0 bis <99.0               | 0.09 | 2.09 | 0.41 | 57.1                               | 56.0                | 49.8                  | 49.8                      | 48.6                   |
| AV_0132                                                             | 132                                                                     | 0.0 bis <99.0               | 0.17 | 2.29 | 0.75 | 47.8                               | 31.9                | 47.4                  | 43.9                      | 53.6                   |
| RI_0330                                                             | 22                                                                      | 0.0 bis <1.0                | 0.05 | 0.8  | 0.15 | 71.7                               | 62.4                | 46.9                  | 48.3                      | 16.5                   |
| KI_0392                                                             | 109                                                                     | 0.0 bis <1.0                | 0.09 | 0.51 | 0.25 | 28.7                               | 27.3                | 23.8                  | 27.1                      | 23.8                   |
| AV_0132                                                             | 3                                                                       | 0.0 bis <1.0                | 0.49 | 0.54 | 0.51 | 3.9                                | 4.8                 | 4.4                   | 4.5                       | 0.1                    |
| RI_0330                                                             | 201                                                                     | 0.0 bis <2.0                | 0.05 | 4.85 | 0.66 | 63.7                               | 56.9                | 54.5                  | 58.7                      | 22.5                   |
| KI_0392                                                             | 297                                                                     | 0.0 bis <2.0                | 0.09 | 2.09 | 0.31 | 51.0                               | 47.9                | 38.6                  | 42.9                      | 34.7                   |
| AV_0132                                                             | 32                                                                      | 0.0 bis <2.0                | 0.17 | 1.18 | 0.52 | 53.3                               | 47.0                | 51.9                  | 52.7                      | 19.6                   |
| RI_0330                                                             | 0                                                                       | 0.0 bis <0.5                | 0.09 | 0.25 | 0.16 | 22.6                               | 24.2                | 23.3                  | 23.5                      | 9.6                    |
| KI_0392                                                             | 20                                                                      |                             |      |      |      |                                    |                     |                       |                           |                        |
| AV_0132                                                             | 0                                                                       |                             |      |      |      |                                    |                     |                       |                           |                        |
| RI_0330                                                             | 22                                                                      | 0.5 bis <1.0                | 0.05 | 0.8  | 0.15 | 71.7                               | 62.4                | 46.9                  | 48.3                      | 16.5                   |
| KI_0392                                                             | 89                                                                      | 0.5 bis <1.0                | 0.14 | 0.51 | 0.27 | 24.6                               | 27.3                | 22.2                  | 27.4                      | 17.5                   |
| AV_0132                                                             | 3                                                                       | 0.5 bis <1.0                | 0.49 | 0.54 | 0.51 | 3.9                                | 4.8                 | 4.4                   | 4.5                       | 0.1                    |
| RI_0330                                                             | 70                                                                      | 1.0 bis <1.5                | 0.09 | 1.54 | 0.48 | 53.4                               | 55.6                | 53.3                  | 61.6                      | 9.5                    |
| KI_0392                                                             | 107                                                                     | 1.0 bis <1.5                | 0.16 | 2.09 | 0.32 | 58.6                               | 45.2                | 31.7                  | 41.6                      | 10.8                   |
| AV_0132                                                             | 9                                                                       | 1.0 bis <1.5                | 0.22 | 0.68 | 0.42 | 40.4                               | 29.3                | 36.0                  | 43.9                      | 8.6                    |
| RI_0330                                                             | 109                                                                     | 1.5 bis <2.0                | 0.14 | 4.85 | 0.87 | 56.9                               | 48.4                | 45.3                  | 48.3                      | 8.2                    |
| KI_0392                                                             | 81                                                                      | 1.5 bis <2.0                | 0.16 | 1.2  | 0.37 | 44.9                               | 52.2                | 41.7                  | 49.5                      | 8.9                    |
| AV_0132                                                             | 20                                                                      | 1.5 bis <2.0                | 0.17 | 1.18 | 0.57 | 56.1                               | 50.1                | 55.2                  | 58.3                      | 7.3                    |

Datensätze: RI=RICHTER, KI=KITTELMANN, AV=AVRAMOPOULOS