inches

centimeters

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 (A) | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L* | 39.12 | 65.43 | 49.87 | 44.26 | 55.56 | 70.82 | 63.51 | 39.92 | 52.24 | 97.06 | 92.02 | 87.34 | 82.14 | 72.06 | 62.15 |
| a* | 13.24 | 18.11 | -4.34 | -13.80 | 9.82 | -33.43 | 34.26 | 11.81 | 48.55 | -0.40 | -0.60 | -0.75 | -1.06 | -1.19 | -1.07 |
| b* | 15.07 | 18.72 | -22.29 | 22.85 | -24.49 | -0.35 | 59.60 | -46.07 | 18.51 | 1.13 | 0.23 | 0.21 | 0.43 | 0.28 | 0.19 |

| | 16 (M) | 17 | 18 (B) | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L* | 49.25 | 38.62 | 28.86 | 16.19 | 8.29 | 3.44 | 31.41 | 72.46 | 72.95 | 29.37 | 54.91 | 43.96 | 82.74 | 52.79 | 50.87 |
| a* | -0.16 | -0.18 | 0.54 | -0.05 | -0.81 | -0.23 | 20.98 | -24.45 | 16.83 | 13.06 | -38.91 | 52.00 | 3.45 | 50.88 | -27.17 |
| b* | 0.01 | -0.04 | 0.60 | 0.73 | 0.19 | 0.49 | -19.43 | 55.93 | 68.80 | -49.49 | 30.77 | 30.01 | 81.29 | -12.72 | -29.46 |

D50 Illuminant, 2 degree observer

Density → 0.04 0.09 0.15 0.22 0.36 0.51 0.75 0.98 1.24 1.67 2.04 2.42

Golden Thread

Colors by Munsell Color Services Lab

Don Williams