

ice  
hall  
the  
he  
l=  
dard  
y  
hout

centimeters

10 9 8 7 6 5 4 3 2 1 0

inches

4 3 2 1

Golden Thread

D50 Illuminant, 2 degree observer

Density

Colors by Munsell Color Services Lab

|    | 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  | -0.55 | -0.07 | 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* | -0.01  | -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 |
| 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 |