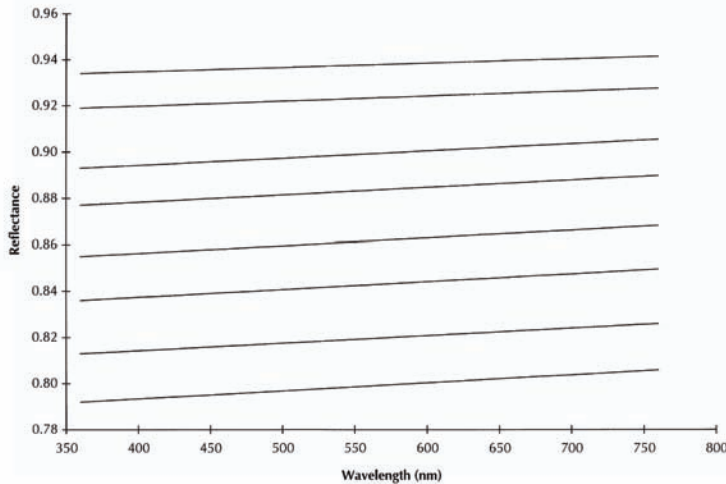


SPECTRALON® HIGH-REFLECTANCE GRAY SCALE STANDARDS

Gray scale standards that offer consistent reflectance, thermal stability, and durability

GRAY SCALE REFLECTANCE STANDARDS



ACCURATE

The standards are offered as a set of eight, with a range of reflectance values from 80% to 94%, in 2% reflectance factor steps. They are supplied with calibration data traceable to national laboratory standards in geometries of 8°/hemispherical reflectance factor (specular included or excluded) or 0°/45° geometries option. Each standard is housed in a durable delrin holder with a protective cover.

Spectralon Gray Scale Reflectance Standards are highly Lambertian over their effective spectral range (350 to 760 nm). The standards offer the consistent reflectance, thermal stability, and durability associated with all Labsphere Spectralon products.

FLEXIBLE

Spectralon® High-Reflectance Gray Scale Standards are used to establish the linearity and accuracy of reflectance spectrophotometers and colorimeters. The standards are suitable for users who need a wide dynamic range of reflectance values that are abbreviated in range, but not in number of calibration steps. Industries such as clay and processed minerals, paper, and paints typically require such a range, which accurately reproduce the range of reflectance values exhibited by those products.

FEATURES:

Wide dynamic range of values from 80% to 94%, in 2% reflectance factor steps

Consistent reflectance

Highly diffuse

Thermally stable

Durable

NIST traceable calibration

Available in sets of eight calibrated standards in either 1.25 or 2 inch diameters

BEST FOR MEASURING:

Calibrating

Spectrophotometers and Colorimeters

Reproducing similar reflectance values of clay, processed minerals, paper, and paints



Specifications

Model Number	Part Number	Reflective Area (Inches)	Description (Reflectance Factor Values)
GRSS-08-010	AS-02591-001	1.25 D	94%, 92%, 90%, 88%, 86%, 84%, 82%, 80%
GRSS-08-020	AS-02592-001	2.00 D	94%, 92%, 90%, 88%, 86%, 84%, 82%, 80%

Typical Reflectance Data of Labsphere Reflective Coatings

Wavelength (Nm)	Spectralon®	Spectrafect®	Duraflect®
250	0.96	0.94	0.63
300	0.98	0.96	0.87
350	0.99	0.97	0.94
400	0.99	0.98	0.96
450	0.99	0.98	0.96
500	0.99	0.98	0.96
550	0.99	0.98	0.96
600	0.99	0.98	0.96
650	0.99	0.98	0.96
700	0.99	0.97	0.96
750	0.99	0.97	0.96
800	0.99	0.97	0.96
850	0.99	0.97	0.95
900	0.99	0.97	0.95
950	0.99	0.97	0.96
1000	0.99	0.97	0.95
1050	0.99	0.96	0.95
1100	0.99	0.96	0.95
1150	0.99	0.96	0.95
1200	0.99	0.95	0.94
1250	0.99	0.95	0.95
1300	0.99	0.95	0.95
1350	0.99	0.94	0.94
1400	0.99	0.93	0.93
1450	0.99	0.91	0.93
1500	0.99	0.92	0.93
1550	0.99	0.92	0.94
1600	0.99	0.92	0.93
1650	0.99	0.92	0.93
1700	0.98	0.92	0.88
1750	0.98	0.91	0.88
1800	0.98	0.91	0.90
1850	0.98	0.91	0.91
1900	0.98	0.86	0.88
1950	0.97	0.83	0.87
2000	0.97	0.85	0.89
2050	0.95	0.86	0.89
2100	0.94	0.86	0.89
2150	0.94	0.87	0.87
2200	0.96	0.87	0.89
2250	0.96	0.86	0.73
2300	0.95	0.84	0.71
2350	0.95	0.83	0.75
2400	0.94	0.82	0.74
2450	0.93	0.80	0.74
2500	0.93	0.77	0.78
2.5-20µm	-	-	-

