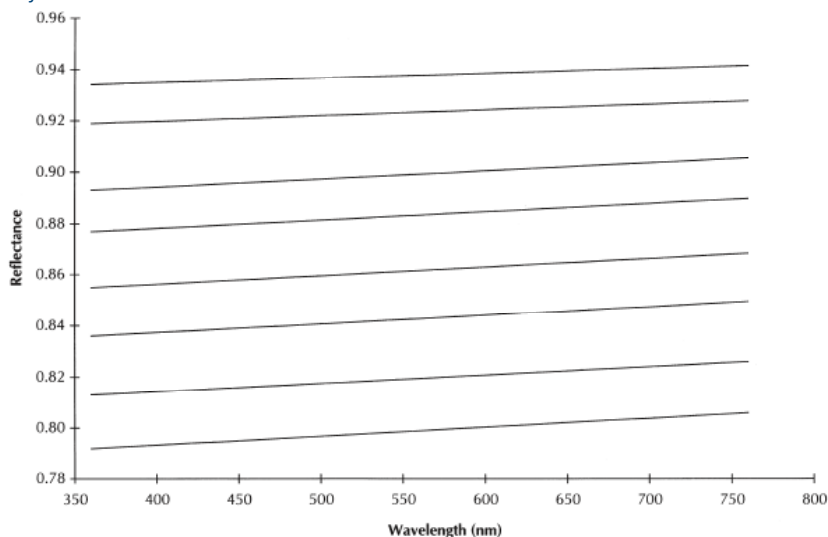


SPECTRALON HIGH-REFLECTANCE GRAY SCALE STANDARDS

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:

- 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®	SPECTRAFLECT®	DURAFLECT®	INFRAGOLD®
250	0.96	0.94	0.63	-
300	0.98	0.96	0.87	-
350	0.99	0.97	0.94	0.342
400	0.99	0.98	0.96	0.322
450	0.99	0.98	0.96	0.373
500	0.99	0.98	0.96	0.412
550	0.99	0.98	0.96	0.579
600	0.99	0.98	0.96	0.789
650	0.99	0.98	0.96	0.848
700	0.99	0.97	0.96	0.883
750	0.99	0.97	0.96	0.9000
800	0.99	0.97	0.96	0.911
850	0.99	0.97	0.95	0.921
900	0.99	0.97	0.95	0.925
950	0.99	0.97	0.96	0.931
1000	0.99	0.97	0.95	0.933
1050	0.99	0.96	0.95	0.933
1100	0.99	0.96	0.95	0.936
1150	0.99	0.96	0.95	0.937
1200	0.99	0.95	0.94	0.938
1250	0.99	0.95	0.95	0.940
1300	0.99	0.95	0.95	0.939
1350	0.99	0.94	0.94	0.939
1400	0.99	0.93	0.93	0.940
1450	0.99	0.91	0.93	0.941
1500	0.99	0.92	0.93	0.942
1550	0.99	0.92	0.94	0.944
1600	0.99	0.92	0.93	0.944
1650	0.99	0.92	0.93	0.944
1700	0.98	0.92	0.88	0.943
1750	0.98	0.91	0.88	0.944
1800	0.98	0.91	0.90	0.945
1850	0.98	0.91	0.91	0.944
1900	0.98	0.86	0.88	0.942
1950	0.97	0.83	0.87	0.939
2000	0.97	0.85	0.89	0.943
2050	0.95	0.86	0.89	0.943
2100	0.94	0.86	0.89	0.941
2150	0.94	0.87	0.87	0.944
2200	0.96	0.87	0.89	0.942
2250	0.96	0.86	0.73	0.943
2300	0.95	0.84	0.71	0.940
2350	0.95	0.83	0.75	0.942
2400	0.94	0.82	0.74	0.937
2450	0.93	0.80	0.74	0.939
2500	0.93	0.77	0.78	0.938
2.5-20μ	-	-	-	>0.940

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