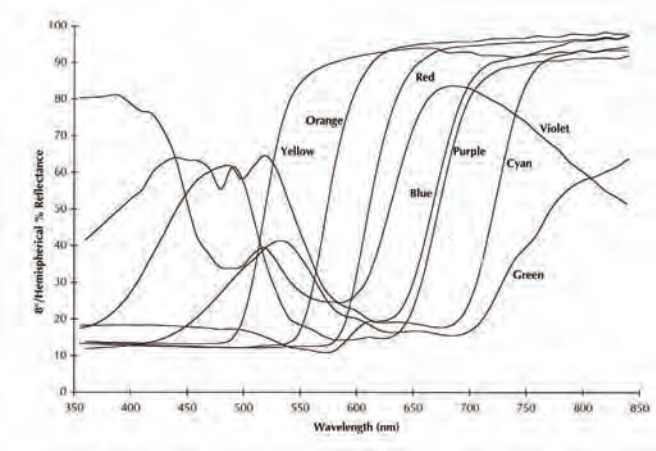
SPECTRALON® DIFFUSE COLOR STANDARDS

Highly stable, durable Color standards for calibrating colorometers and spectrophotometers



RELIABLE

Made of Spectralon Diffuse Reflectance material, these color standards offer exceptional reflectance properties that are nearly perfectly Lambertian. Unlike ceramic tiles, Spectralon is independent of viewing geometry.

The reflectance of Spectralon Color Standards is extremely consistent and reproducible. This quality helps eliminate gross margins of error in manufacturing processes of color-dependent products such as paints or inks.

The high thermal stability of Spectralon Color Standards eliminates the need to rigorously control the temperature in the laboratory. The slight color change of the standards with increasing temperature is extremely gradual and can be easily monitored.

Spectralon color standards are durable, washable and easily machined without loss of color or surface texture. The standards retain uniformity throughout, despite daily exposure to harsh environments.

Labsphere can produce custom color standards to meet your individual needs. Spectralon Color Standards are available either calibrated or uncalibrated, in a variety of configurations.

EASY-TO-USE

Spectralon Diffuse Color Standards aid in developing consistent color reproduction for manufacturers of products such as textiles, papers, pharmaceuticals, paints and inks. These color standards provide highly stable, reproducible spectral reflectance.

As opposed to ceramic color tiles, which are characterized by a specular surface, Spectralon color standards are highly diffuse, thus simplifying measurement procedures by removing the effect of viewing geometry. Spectralon color standards are durable and maintain a consistent reflectance over time.

These properties - Lambertian behavior, durability and stability - make Spectralon Diffuse Color Standards the ideal choice for calibrating colorimeters and spectrophotometers.

All standards are calibrated spectrophotometrically in our state-of-the-art Reflectance Research Laboratory with standards traceable to national laboratories (NIST).

Data includes tristimulus values, chromaticity coordinates, UCS coordinates, and CIELAB and CIELUV values.

FEATURES:

- Highly diffuse, eliminating errors due to viewing angle
- Consistent reflectance to eliminate gross margins of color-dependent products
- Thermally stable for a wide range of environment conditions
- Durable, washable, and waterproof
- NIST traceable calibration
- Data includes tristimulus values, chromaticity coordinates, UCS coordinates, and CIELAB and CIELUV values.
- Available calibrated or uncalibrated, in 1.25 or 2-in. diameters, and in multiple configurations
- Colors include red, green, blue, yellow, cyan, orange, purple, and violet

BEST FOR:

- Calibration of Colorimeters and Spectrophotometers
- Color Matching Textiles
- OEM Instrument Color Standards
- Quality Control of Paints, Pulp, and Paper
- Manufacturing of Color-Dependent Products

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Specifications

Part Number	Order Number	Number of Colors	Number of Neutrals	Reflective Area (inches)	Description
CSS-04-010	AS-01170-060	4	0	1.25 D	red, green, blue, yellow
CSS-04-020	AS-01178-060	4	0	2.00 D	red, green, blue, yellow
CSS-04A-010	AS-01170-160	4	0	1.25 D	cyan, orange, purple, violet
CSS-04A-020	AS-01178-160	4	0	2.00 D	cyan, orange, purple, violet
CSS-08-010	AS-01170-260	4	4	1.25 D	red, green, blue, yellow, 99%, 50%, 20%, 2%
CSS-08-020	AS-01178-260	4	4	2.00 D	red, green, blue, yellow, 99%, 50%, 20%, 2%
CSS-08A-010	AS-01170-360	8	0	1.25 D	red, green, blue, yellow, cyan, orange, purple, violet
CSS-08A-020	AS-01178-360	8	0	2.00 D	red, green, blue, yellow, cyan, orange, purple, violet
CSS-12-010	AS-01171-060	8	4	1.25 D	above eight colors and 99%, 50%, 20%, 2%
CSS-12-020	AS-01179-060	8	4	2.00 D	above eight colors and 99%, 50%, 20%, 2%

Ocean Photonics

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