

Coatings and Materials Solutions



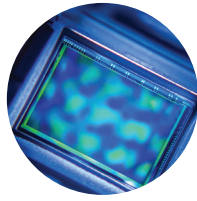
Diffuse reflectance is used to calibrate spectrophotometers and imagers, scatter light, control light levels and make light insensitive to directionality. Labsphere makes some of the best diffuse reflectance coatings and materials on earth and in space.



MEASURE
any light source

CREATE
any spectrum

REFLECT
any wavelength



Permaflect® Diffuse Reflectance Coatings and Targets



Correct image tonal balance over a broad scale of uniform grey scale reflectances from 5% to 95%

Save time and effort performing broadband sensor fusion characterization from a single target tailored to your application



Ideal for defining 2D and 3D diffuse grey scale targets for LiDAR and object recognition models

Reduce downtime with these robust and cleanable coated targets for production and outdoor field use

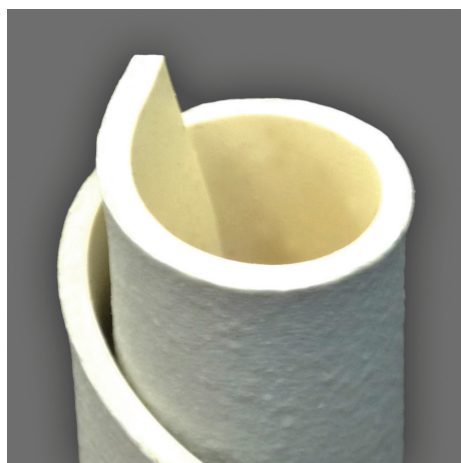


Coating services for your integrated parts and disposable reference artifacts





Flexispect Flexible Diffuse Reflectance Coatings and Targets



Portable and robust targets ideal for baselining commercial drone field tests in any natural environment

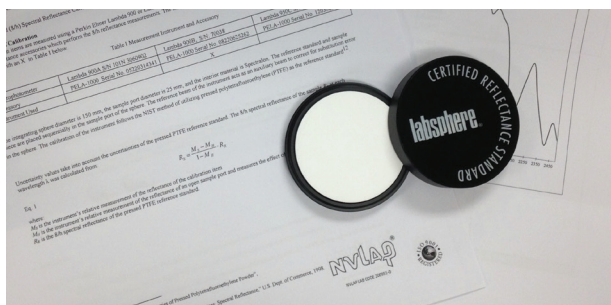
Designed for field use, research grade targets can be rolled up and stored when not in use

Same exceptional optical performance as Permaflect in a flexible platform that is light and manageable for multi-site applications

**Labsphere offers
a wide range of diffuse reflectance
coatings and materials specifically
designed to uniquely enhance
industry applications**



Spectralon® Diffuse Reflectance Materials



Machinable, highly diffuse reflectance materials that are ideal for improving performance, efficiencies and measurement accuracy

Three options to meet your needs:

- **Optical Grade 2% to 99% reflectance materials**

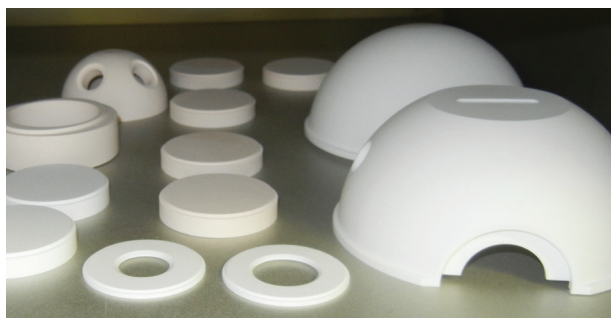
The standard in diffuse reflectance reference materials for spectrophotometry and optical properties of materials analysis

- **EPV 99% reflectance material**

When stable performance is essential in a vacuum or for long term exposure to UV

- **Space Grade 99% reflectance material**

Qualified ultra-clean material for space-borne metrology





Spectrafect® Diffuse Reflectance Coating



Cost-effective, highly reflective coating useful over a wide wavelength range

Applied easily by spray to any substrate allowing for faster prototyping

Labsphere is equipped with an in-house coating facility and is also able to perform on-site coating for very large or complex custom projects

Zenith Lite™ Diffuse Reflectance Targets



Ideal for field radiance calibrations

Extruded PTFE material on rigid light aluminum backing for field use

Lightweight carrying cases allow for easy transport and protective storage

Select grey scale levels from UV-VIS to NIR: 95%, 90%, 50%, 20% and 5%

Available in 4 standard target sizes

Industries and Markets We Serve

Internationally recognized companies utilize our technology each and every day.
Learn how we can help your business today.

