

## Diffuse Reflective Coating SERIES

### Specification:

After years of research, our company has developed series of high-quality diffuse reflective coating, which can be met international standards, and also we got many kinds of patents.

Description	Type	Reflectance Value	Spectral Range
80 Diffuse Reflective Coating	R80	0.80	350~800nm
Economic type Barium Sulfate Coating	R93	0.93	350~800nm
Highly Reflective Coating	R98	0.92	200~350nm
		0.985	350~1600nm

### Substrate Applied

Suitable for various substrates, such as aluminum, iron, plastic, acrylic, fiber, and so on.

### Performance

UV protection, With WELLAB UV aging testing, it still keeps the perfect performance after long-term UV irradiation. Moisture-Proof, Shock Resistance, Anti-Corrosion, High-Temperature Resistance, Strong Adhesion, Non-Toxic, Non-Irritating Odor, Easy Maintenance, Long life-time.



The research shows that the quality of diffuse reflective coating and the painting technology are decisive to the light reflectance. And different thickness of layers (such as Mirror Finish, Sand Grain Finish, and Granular Finish) and painting technologies are required for different types of diffuse reflective coating.

While we developing the high quality diffuse reflective coating, we also focus on upgrading the painting technology (Lambert). Recently, our new designed integrating spheres with high quality diffuse reflective coating and painting technology are preferred by customers domestic and abroad.

The life-time of diffuse reflective coating is about 3 years. It also depends on the operational environment, operating mode, storage condition, and other causes when using the integrating sphere.

We suggest that the inner surface of the integrating spheres be repaired or re-painted after 3 years, otherwise it will decrease the measurement accuracy.

We also provide services of repairing, re-painting, maintenance and upgrading for all kinds of integrating spheres.

There are various of diffuse reflective coating to be chosen for different requirements for all customers.

<http://www.mulansphere.com>



## MSPD1 SERIES(PTFE)

### Performance Indicators

Lifetime of machinery: 10 years  
 Lifetime of diffuse reflective coating: 5 years  
 Stability: Room temperature/High temperature  
 Humidity: 20-80%RH  
 Storage Condition: Rain/Dust Proof

### Specification

Internal DIA: 25mm、38mm、50mm  
 Range of the reflectance :200nm-2500nm  
 The reflectance :90%-98%  
 The structure outside :The material always be aluminium alloy and it can be customized

### Application

LED Thermal Test  
 Efficacy/luminous flux etc. Measurement

### Light Source Applied

G4、SMD、tungsten lamp  
 And many miniwatt source, it can be standard or non standard lamp

### Features



The coating in this series is named "PTFE", the molding technique of the coating material is powder die casting.

This coating has many advantages like high reflectance, wide range of wave, easy to clean, good weather ability and so on. It is acclaimed in the area of the integrating sphere.

There are three models now in our company, they are: MSPD1-0025, MSPD1-0038, MSPD1-0050 (1in, 1.5in, 2in)

The biggest difference of the sphere between this series and other series is that the internal coating is made of the material straightly, and then we install the external shell to it. When doing the common sphere usually we first do the sphere shell and then spray the coating to the internal surface of the shell.

So in this structure, the coating is very strong and it never drops out and goes yellow theoretically.

When using the sphere, the principle is the same as the common sphere. The usual design of the sphere is one enter port and two exit ports. We can customize a sphere according to your drawing.

