

ODPP

<https://www.gigahertz-optik.com/en-us/product/odpp/>

Product tags:



Description

Barium Sulfate

Barium Sulfate ($BaSO_4$) is a white powder used in optical applications due to its suited flat spectral reflectance response within the UV-A to NIR wavelength range and perfectly usability in terms of the coating process. **It is the quasi-standard in integrating sphere coating due to its very good optical properties.** In solution Barium Sulfate exhibits a diffuse reflectance characteristic and is resistant to high intensity optical radiation. The powder can be compressed into tablet form for use as reflectance and can also be supplied in solution for spray coating large surfaces.

At Gigahertz-Optik, we draw on decades of experience in the production and processing of barium sulfate solution and will be happy to advise you on your application.

Integrating Sphere Coating

Gigahertz-Optik developed and manufactures its own barium sulfate solution for coating its world class line of integrating spheres and accessory products. Carefully selected materials and preparation processes are used to produce the coating.

ODPP

Gigahertz-Optik also offers the coating as a standard sales product under the product name ODPP. ODPP is a spray ready barium sulfate & water mixture for use as a coating for diffuse reflectance plates and integrating spheres. The last P in ODPP stands for the Percentage of the desired reflectivity. ODPP is usually supplied in a 1 liter bottle.

ODMP

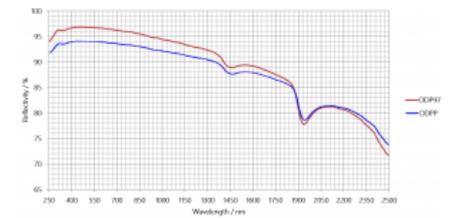
In some applications [ODMP](#), a PTFE based grey scattering material which is CNC machined, is also interesting. Especially for small integrating spheres or special shapes that need to be CNC milled directly.



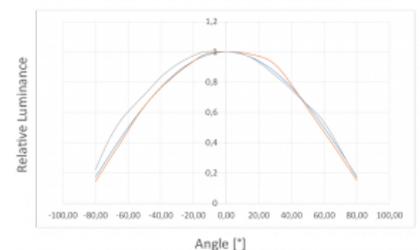
Diffuse reflective coating



during the coating process



Typical Spectral Reflectance of a specific grey ODPP curve compared to ODP97



Typical Diffuse Reflectance Characteristic



Coating Services

Specifications

Specification

ODPP Properties

- Grey reflective diffuse coating for optical radiation within the 300 nm to 2400 nm wavelength range
- Reflectance between 85% and 90% is usually asked. Custom made.
- Supplied in air spray ready water and BaSO₄ mixture with binder
- Can be applied directly to coarse aluminum surface
- Non-toxic, non-flammable and free of solvents
- Cured coating is sensitive to damage from impact and abrasion and also soluble in water
- Careful and hands covered handling of coated parts is necessary!
- ODPP is supplied in 1liter bottles which should be stored in a cool, dry and dark place. Or ODPP is obtained through a coating service.
- The durability is approximate 1 year. This applies also to open bottles if well locked kept
- 1liter of ODPP covers a surface area of about 1m² for typical amount of 9 layers (depends on thickness of the layers). These values refer to a large, flat and seamless area.

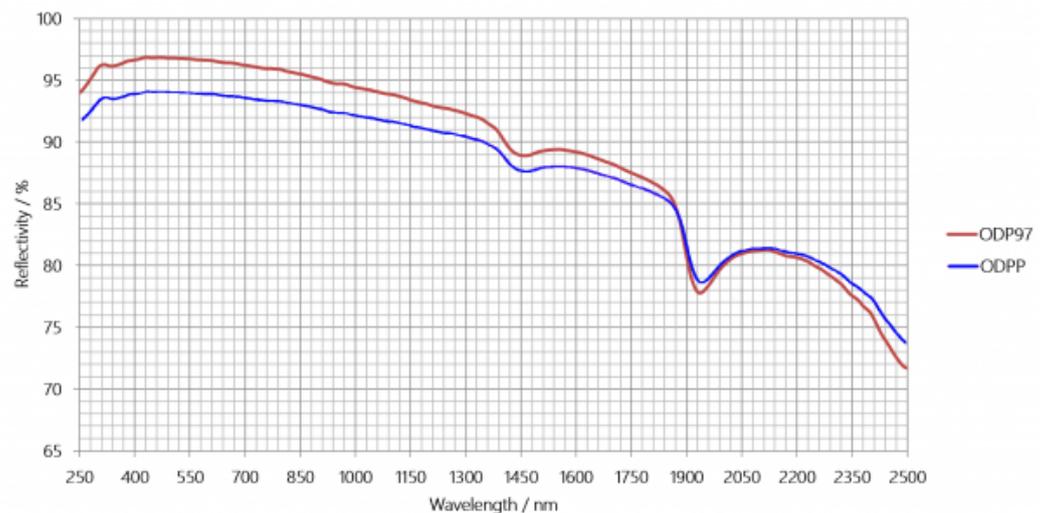
Coating

Gigahertz-Optik provides custom coating services for its ODPP barium sulfate coating.

Please contact the factory to discuss your custom coating requirements.

Spectral range

Typical Spectral Reflectance of a specific grey ODPP curve compared to ODP97



Purchasing information

Article-Nr	Modell	Description
Product		
	ODPP	1l bottle grey barium sulfate coating in ready to use mixture
	ODPP Service	Custom coating services for ODPP barium sulfate coating

Contact, Calibration, Service & Support

We are known worldwide for excellent technical consulting and after sales support. Contact us to find together the best solution for you. Our services:

- Technical Consulting & Sales
- After-Sales Support
- Calibrations & Re-Calibrations ([ISO/IEC 17025 Calibration Services](#), [factory calibration](#), [Calibration of Third-Party Products](#))
- Repairs & Updates
- OEM & Feasibility Consulting of Customized Solutions

[Send us your inquiry](#) or contact us by phone or e-mail. We would welcome your feedback too or review us on [Google](#).

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