

BN-Rxx-D2

<https://www.gigahertz-optik.com/en-us/product/BN-R98-D2>

Product tags:

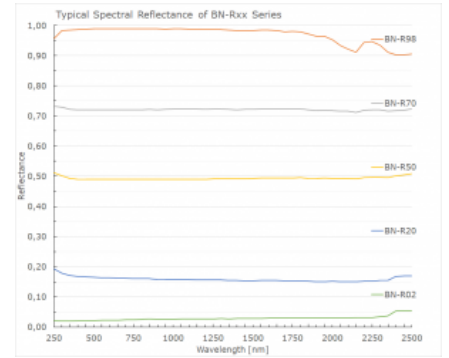


Description

Reflection standards are used to calibrate and verify spectrophotometers, spectral colorimeters, and other spectroscopic instruments. For the 100% adjustment of the measuring devices, white standards with the highest possible reflectance are used. Linearity tests are performed with greyscale standards of different reflectances.

BN-Rxx-D2 reflection standards

are made of white ODM98 and grey to black pigmented ODMP. ODM98 offers the highest possible reflectance in the wavelength range 250 nm to 2500 nm and is therefore commonly used as a 100 % reference in spectrophotometers. As a translucent material, the material also offers near perfect Lambertian reflection. The reflective standards have a diameter of 50.8 mm / 2" and are supplied in a black housing. The protective lid closes simply with a quarter turn avoiding the need for fiddly fine threads. The BN-Rxx-D2 reflection standards are available with reflectivities of 98%, 70%, 50%, 20% and 2%.



Traceable calibrations

Each reflection standard is supplied with an individually prepared calibration certificate for the wavelength range from 250 nm to 2450 nm. The calibration is carried out by the Calibration Laboratory for Optical Radiation Measurements at Gigahertz-Optik GmbH. The calibration is traceable to the Physikalisch-Technische Bundesanstalt (PTB).




Working standards

Alternatively, the reflection standards are also offered without calibration for use as working standards. In this case, the user performs the calibration on his own using a calibrated reflection standard.

Specifications

General	
Short description	Calibration Standard for spectral reflectance.
Main features	Reflective material made of ODM98 or ODMP with 2" / 50.8mm diameter. Reflectance 98%, 70%, 50%, 20% and 2%. Near perfect Lambertian reflection. Protective lid closes with a quarter turn.
Measurement range	250 nm to 2450 nm
typical applications	100% adjustment and linearization of reflection spectrophotometers and colorimeters.
Calibration	Calibration of the spectral reflectance from 250 nm to 2450 nm in 50 nm increments.
Product	
Reflectance	See ordering information
Dimensions	Diameter 2"/50.8 mm

Configurable with

Produktname	Product Image	Description	Show product
ISMP-50-R-V01		Light-reflection gauge for diffuse and non-diffuse samples. Features: 8/d set-up with 50cm dia integrating sphere DIN-5036-T3 conform. Illuminant A. Regular and diffuse reflectance.	https://www.gigahertz-optik.com/en-us/product/ISMP-50-R-V01
UPB-150-ART		Integrating sphere for universal use in reflection and transmission application. Features: 150 mm/6" dia. 5 application ports. BaSO4 coating, Precise port alignment and uniform knife-edges because of CNC machined housing. Optional accessories.	https://www.gigahertz-optik.com/en-us/product/UPB-150-ART
UPB-150-ARTA		Integrating sphere for universal use in reflection, transmission and absorption application. Features: 150 mm/6" dia. 5 application ports. BaSO4 coating, Sheet and cuvette sample holder. Precise port alignment and uniform knife-edges because of CNC machined housing. Optional accessories.	https://www.gigahertz-optik.com/en-us/product/UPB-150-ARTA

Purchasing information

Article-Nr	Modell	Description
Product		
15295999	BN-R98-D2C	Plate with housing and cap; reflectance 98 %; d 2"; d 50,8 mm; calibration certificate
15296812	BN-R70-D2C	Plate with housing and cap; reflectance 70 %; d 2"; d 50,8 mm; calibration certificate
15296810	BN-R50-D2C	Plate with housing and cap; reflectance 50 %; d 2"; d 50,8 mm; calibration certificate
15296808	BN-R20-D2C	Plate with housing and cap; reflectance 20 %; d 2"; d 50,8 mm; calibration certificate
15296802	BN-R02-D2C	Plate with housing and cap; reflectance 2 %; d 2"; d 50,8 mm; calibration certificate
15295998	BN-R98-D2	Plate with housing and cap; reflectance 98 %; d 2"; d 50,8 mm; without calibration certificate
15296811	BN-R70-D2	Plate with housing and cap; reflectance 70 %; d 2"; d 50,8 mm; without calibration certificate
15296809	BN-R50-D2	Plate with housing and cap; reflectance 50 %; d 2"; d 50,8 mm; without calibration certificate
15296807	BN-R20-D2	Plate with housing and cap; reflectance 20 %; d 2"; d 50,8 mm; without calibration certificate
15296801	BN-R02-D2	Plate with housing with cap; reflectance 2 %; d 2"; d 50,8 mm; without calibration certificate