BN-Rxx-SQ

Product tags:

Description

Large-area reflection standards are used to align and verify laser rangefinders and optical distance sensors. White standards with the highest possible reflectance are used for the 100 % adjustment of the measuring devices, linearity is determined using greyscale standards of different reflectivities.

BN-Rxx-SQ reflection standards

are made of white ODM98 and grey to black pigmented ODMP. ODM98 offers the highest possible reflectance in the wavelength range from 250 nm to 2500 nm and is therefore commonly used as a 100% reference for the instruments and sensors. As a translucent material, it also offers a near perfect Lambertian reflection behavior. Reflective standards are offered in dimensions from 2" x 2" / 50.8 mm x 50.8 mm to 10" x 10" / 254 mm x 254 mm (or 12" x 12" / 304,8 mm x 304,8 mm) in a metal case with protective cap. The BN-Rxx-SQ reflection standards are available with reflectivities of 98%, 70%, 50%, 20%, and 2%.

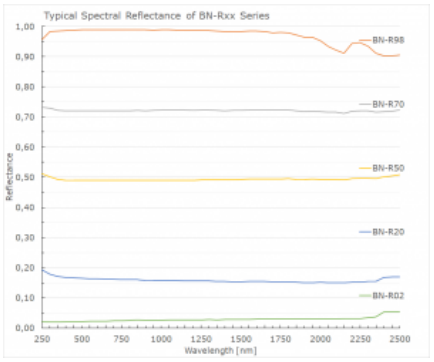
Traceable calibrations

Each standard of reflection 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.

BN-R-SQ - square in different Sizes



Typical Spectral Reflectance of BN Rxx Series

BN-R-SQ - different spectral reflectance

Specifications

General

Short description	Large are calibration standard of spectral reflectance.

Main features	Reflective material made of ODM98 or ODMP. Dimensions up to 10"x 10" / 254mm x 254mm. Reflectance 98%, 70%, 50%, 20% and 2%. Near perfect Lambertian reflection. Housing with protective cap.
Measurement range	250 nm to 2450 nm
Typical applications	Large-area reflection standards for the comparison and verification of laser rangefinders and optical distance sensors at greater distances.
Calibration	Calibration of the spectral reflectance from 250 nm to 2450 nm in 50 nm increments.
Product	
Reflectance	See ordering Information.
Dimensions	See ordering information

Purchasing information

Article-Nr	Modell	Description
Product		
15296053	BN-R98-SQ12C	Plate with housing and cap; reflectance 98 %; 12" x 12"; 305 mm x 305 mm; calibration certificate
15296782	BN-R98-SQ10C	Plate with housing and cap; reflectance 98 %; 10" x 10"; 254 mm x 254 mm; calibration certificate
15296052	BN-R98-SQ5C	Plate with housing and cap; reflectance 98 %; 5" x 5"; 127 mm x 127 mm; calibration certificate
15296830	BN-R98-SQ2C	Plate with housing and cap; reflectance 98 %; 2" x 2"; 50,8 mm x 50,8 mm; calibration certificate
15298443	BN-R50-SQ10C	Plate with housing and cap; reflectance 50 %; 10" x 10"; 254 mm x 254 mm; calibration certificate
15296774	BN-R20-SQ10C	Plate with housing and cap; reflectance 20 %; 10" x 10"; 254 mm x 254 mm; calibration certificate
15296768	BN-R02-SQ10C	Plate with housing and cap; reflectance 2 %; 10" x 10"; 254 mm x 254 mm; calibration certificate
15296474	BN-R98-SQ12	Plate with housing and cap; reflectance 98 %; 12" x 12"; 305 mm x 305 mm
15296781	BN-R98-SQ10	Plate with housing and cap; reflectance 98 %; 10" x 10"; 254 mm x 254 mm
15296475	BN-R98-SQ5	Plate with housing and cap; reflectance 98 %; 5" x 5"; 127 mm x 127mm
15296829	BN-R98-SQ2	Plate with housing and cap; reflectance 98 %; 2" x 2"; 50,8 mm x 50,8 mm
15298442	BN-R50-SQ10	Plate with housing and cap; reflectance 50 %; 10" x 10"; 254 mm x 254 mm
15296773	BN-R20-SQ10	Plate with housing and cap; reflectance 20 %; 10" x 10"; 254 mm x 254 mm

Article-Nr	Modell	Description
15296767	BN-R02-SQ10	Plate with housing and cap; reflectance 2 %; 10" x 10"; 254 mm x 254 mm