

TECHSPEC[®] 1.0 OD 50mm Diameter VIS-NIR ND Filter



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S\$110^{.52}

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SPECIFICATIONS

General

Neutral Density Filter

Type:

Note:
Optical density values are average over specified blocking wavelength range.

Physical & Mechanical Properties

50.00 +0.00/-0.25	Diameter (mm):
1.00 ±0.20	Thickness (mm):
90	Clear Aperture (%):
Optical Properties	
0	Angle of Incidence (°):
1.0	Optical Density OD (Average):
N-BK7	Substrate:
Surface 1: Inconel	Coating:
45.00	Reflection (%):
60-40	Surface Quality:
10.00	Transmission (%):
350 - 1100	Blocking Wavelength Range (nm):
λ/4 (measure pre-coating)	Transmitted Wavefront, P-V:
±5% of Optical Density	Neutrality:
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

PRODUCT DETAILS

- Consistent Transmission from 350 – 1100nm
- Optical Densities from 0.1 to 3.0 Available
- Combine Filters for Custom Optical Densities

TECHSPEC® VIS-NIR Neutral Density (ND) Filters feature a constant transmission from 350 – 1100nm and are used to attenuate many broadband visible and NIR light sources. Optical Densities are additive allowing these filters to be stacked to achieve custom optical density values. For example, stacking filters with OD values of 0.2 and 2.0 yields a resultant optical density of 2.2. TECHSPEC® VIS-NIR Neutral Density (ND) Filters are available in a range of 12.5, 25, and 50mm diameters as well as a 50 x 50mm square option in various increments of optical densities from 0.1 to 3.0. These filters are ideal for use in laser and photometer applications, where excessive power can cause damage or inaccurate results.

Note: Low optical density filters (0.1, 0.15, and 0.2 OD) are coated with thin layers of Inconel and their performance may shift overtime. To prolong the lifetime of these filters, we recommend using non-contact cleaning methods (such as compressed air) to prevent damage to the coating and avoiding the use of these filters in humid environments to prevent oxidation.

SPECIAL HANDLING

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

