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TECHSPEC® 0.5 OD 12.5mm Dia., NIR ND Filter

Near-IR (NIR) Neutral Density (ND) Filters

Stock **#47-826** **4 In Stock**

- 1 + **£79.60**

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Volume Pricing	
Qty 1-5	**£79.60** each
Qty 6-25	**£63.60** each
Qty 26-49	**£60.40** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Neutral Density Filter

Physical & Mechanical Properties

Diameter (mm):
12.50 +0.0/-0.2

Thickness (mm):

1.50 ±0.10

Clear Aperture (%):
80

Parallelism (arcsec):
<5

Optical Properties

Optical Density OD (Average):
0.5

Substrate:
Fused Silica (Corning 7980)

Coating:
Metallic Based ND

Surface Quality:
40-20

Transmission (%):
32.00

Blocking Wavelength Range (nm):
700 - 1100

Transmitted Wavefront, P-V:
λ/4

Optical Density Tolerance (%):
±10

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

REACH 241:
Compliant

Need different specs or modifications?

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.

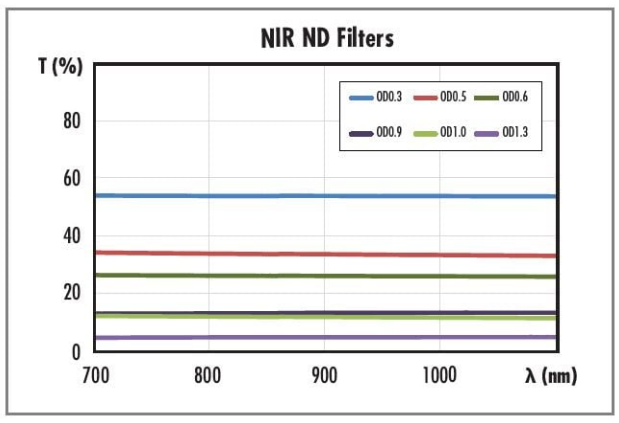
Product Details

- Ideal for NIR Wavelengths 700-1100nm
- Optical Densities Ranging from 0.3 to 3.0

TECHSPEC® Near-IR (NIR) Neutral Density (ND) Filters feature a spectrally flat region between 700 and 1100nm, outstanding parallelism, and exceptional surface characteristics. The combination of high tolerance and broadband performance makes our filters ideal for attenuating a wide range of IR sources. The UV Fused Silica substrate features a low coefficient of thermal expansion and excellent surface quality, making these filters suitable for attenuating low power lasers, including lasers at the 1064nm Nd:YAG wavelength. Other applications include NIR spectroscopy, machine vision, and analytical chemistry. TECHSPEC Near-IR (NIR) Neutral Density (ND) Filters may be stacked to obtain a variety of optical densities. Orient the mirrored side toward the source at a 0° angle of incidence. Optical Densities of 0.5, 1.0, 1.5, 2.0, 2.5, and 3.0 are available in a Pre-Loaded Filter Wheel.

Note: Due to supply chain issues, our kits may be delivered with an alternative packaging solution in place of a wooden box. For any questions, please contact kits@edmundoptics.com.

Technical Information



Compatible Mounts

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