

TECHSPEC<sup>®</sup> 0.5 OD 50mm Dia., NIR ND Filter



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

Stock **#62-673** **5 In Stock**

-

1

+

€221<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €221,00 each                  |
| Qty 6-25       | €177,00 each                  |
| Qty 26-49      | €168,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Neutral Density Filter

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.0/-0.2

Thickness (mm):

|                             |                                                                                              |
|-----------------------------|----------------------------------------------------------------------------------------------|
| 5.00 +0.00/-0.10            |                                                                                              |
|                             |                                                                                              |
| 80                          | Clear Aperture (%):                                                                          |
|                             |                                                                                              |
| <5                          | Parallelism (arcsec):                                                                        |
|                             |                                                                                              |
| Optical Properties          |                                                                                              |
|                             |                                                                                              |
| 0.5                         | Optical Density OD (Average):                                                                |
|                             |                                                                                              |
| Fused Silica (Corning 7980) | Substrate:  |
|                             |                                                                                              |
| Metallic Based ND           | Coating:                                                                                     |
|                             |                                                                                              |
| 40-20                       | Surface Quality:                                                                             |
|                             |                                                                                              |
| 32.00                       | Transmission (%):                                                                            |
|                             |                                                                                              |
| 700 - 1100                  | Blocking Wavelength Range (nm):                                                              |
|                             |                                                                                              |
| λ/4                         | Transmitted Wavefront, P-V:                                                                  |
|                             |                                                                                              |
| ±10                         | Optical Density Tolerance (%):                                                               |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
|                       |                             |
| Compliant             | RoHS 2015:                  |
|                       |                             |
| View                  | Certificate of Conformance: |
|                       |                             |
| Compliant             | REACH 241:                  |
|                       |                             |

## 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](mailto:kits@edmundoptics.com).

## Technical Information



## 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](#).

## Compatible Mounts

