

TECHSPEC<sup>®</sup> 38.1mm Dia., 1030nm, *N*/10 Ultra-Low Reflectivity Window



*N*/10 Ultra-Low Reflectivity Windows

Stock #11-272 CLEARANCE 8 In Stock

-

1

+

€106<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €106,00 each                  |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Laser Line Window

Physical & Mechanical Properties

Clear Aperture CA (mm):

34.29

Diameter (mm):

38.10 +0.00/-0.10

Thickness (mm):

|                      |                          |
|----------------------|--------------------------|
| 6.35 ±0.20           |                          |
| <3                   | Parallelism (arcmin):    |
| Protective as needed | Bevel:                   |
| 90                   | Clear Aperture (%):      |
| Fine Ground          | Edges:                   |
| 0.16                 | Poisson's Ratio:         |
| 73                   | Young's Modulus (GPa):   |
| 522.00               | Knoop Hardness (kg/mm²): |

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Optical Properties               |                                        |
| 0                                | Angle of Incidence (°):                |
| Laser Ultra V-Coat (1030nm)      | Coating:                               |
| 1030                             | Design Wavelength DWL (nm):            |
| Fused Silica (Corning 7980)      | Substrate: <div></div>                 |
| 1.458                            | Index of Refraction (n <sub>d</sub> ): |
| 10-5                             | Surface Quality:                       |
| 67.8                             | Abbe Number (v <sub>d</sub> ):         |
| R <sub>abs</sub> <0.10% @ 1030nm | Coating Specification:                 |
| λ/10                             | Surface Flatness (P-V):                |
| 15 J/cm² @ 1030nm, 20ns, 20Hz    | Damage Threshold, By Design:           |

|                                                                   |                                                              |
|-------------------------------------------------------------------|--------------------------------------------------------------|
| Material Properties                                               |                                                              |
| 2.20                                                              | Density (g/cm³):                                             |
| 0.52 (+5 to +35°C)<br>0.57 (0 to +200°C)<br>0.48 (-100 to +200°C) | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |
| 7980 0F                                                           | Fused Silica Grade:                                          |

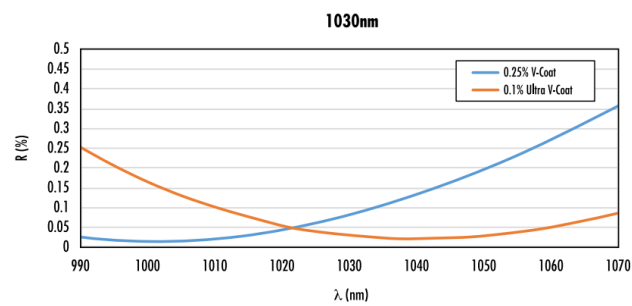
|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| Compliant             | Reach 219:                  |
| View                  | Certificate of Conformance: |

## Product Details

- <0.1% ReflectivityLaser Line Coatings
- Nd:YAG and Yb:YAG Wavelength Options
- Reduce Typical Laser System Losses by 3% (Compared to a 0.25% Specified System with 10 Transmissive Optics)
- Increased Transmission Reduces Back Reflections, Ghost Images, and Stray Light

TECHSPEC® λ/10 Ultra-Low Reflectivity Windows feature anti-reflection coatings with reflection lower than 0.1% at the design wavelength. These windows feature high quality fused silica substrates with λ/10 surface flatness and 10-5 surface quality to minimize scatter. With ultra-low reflectivity and high damage thresholds, these windows are ideal for integration into laser systems to virtually eliminate surface reflections. TECHSPEC λ/10 Ultra-Low Reflectivity Windows are available in a range of laser V-Coats from 266nm to 1064nm for compatibility with Nd:YAG and Yb:YAG laser sources. Imperial diameter sizes from 12.7mm to 50.8mm are available.

## 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