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TECHSPEC® 38.1mm Dia., 266nm, λ/10 Ultra-Low Reflectivity Window

λ/10 Ultra-Low Reflectivity Windows

Stock **#11-224** CLEARANCE **20+ In Stock**

- 1 + **C$148.40**

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Qty 1+	**C$148.40** each
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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

Parallelism (arcmin):
<3

Bevel:
Protective as needed

Clear Aperture (%):
90

Edges:
Fine Ground

Poisson's Ratio:
0.16

Young's Modulus (GPa):
73

Knoop Hardness (kg/mm^2):
522.00

Optical Properties

Angle of Incidence (°):
0

Coating:
Laser Ultra V-Coat (266nm)

Design Wavelength DWL (nm):
266

Substrate:
Fused Silica (Corning 7980)

Index of Refraction (n_d):
1.458

Surface Quality:
10-5

Abbe Number (v_d):
67.8

Coating Specification:
R_{abs} <0.10% @ 266nm

Surface Flatness (P-V):
λ/10

Damage Threshold, By Design:
3 J/cm^2 @ 266nm, 20ns, 20Hz

Material Properties

Density (g/cm^3):
2.20

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
0.52 (+5 to +35°C)
0.57 (0 to +200°C)
0.48 (-100 to +200°C)

Fused Silica Grade:
7980 0F

Regulatory Compliance

RoHS 2015:
Compliant

Reach 219:
Compliant

Certificate of Conformance:
View

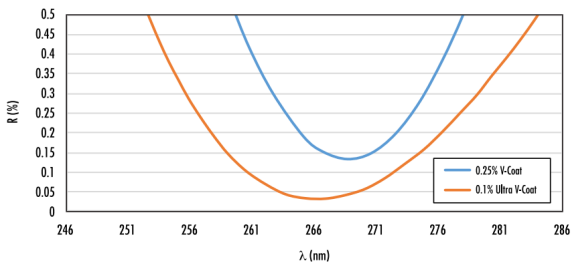
Product Details

- <0.1% Reflectivity Laser 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

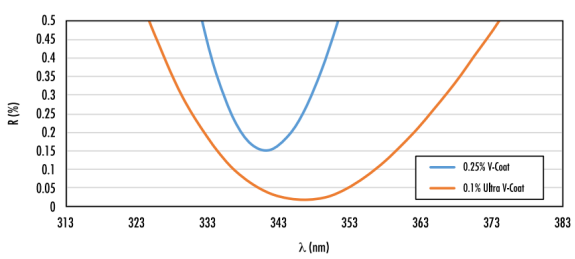
TECHSPEC® λ/10 Ultra-Low Reflectivity Windows feature anti-reflection coatings with reflection lower than 0.1% at the design wavelength. These windows feature high quality fused silica substrates with λ/10 surface flatness and 10-5 surface quality to minimize scatter. With ultra-low reflectivity and 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

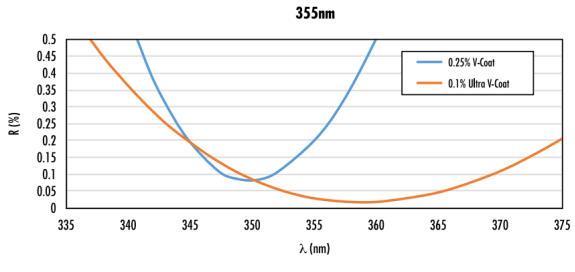
266nm



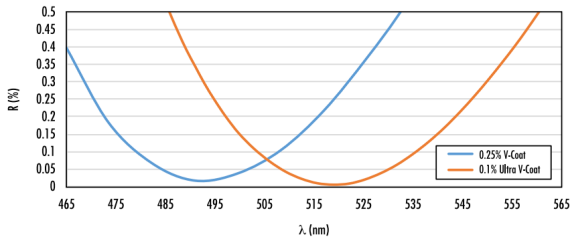
343nm



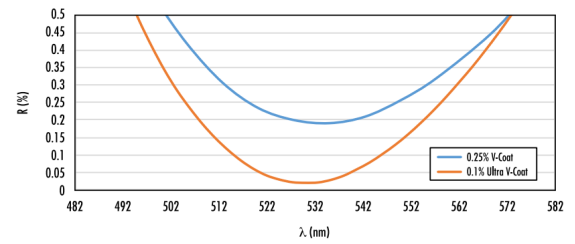
355nm



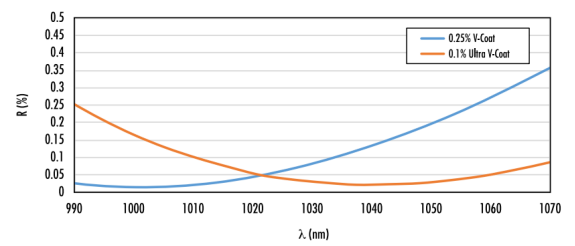
515nm



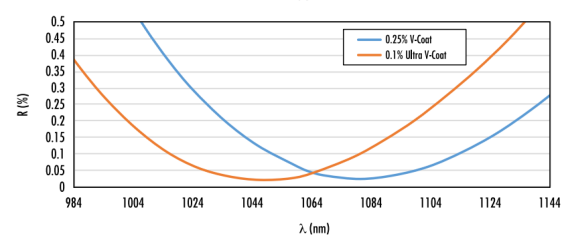
532nm



1030nm



1064nm



Custom

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- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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Compatible Mounts

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