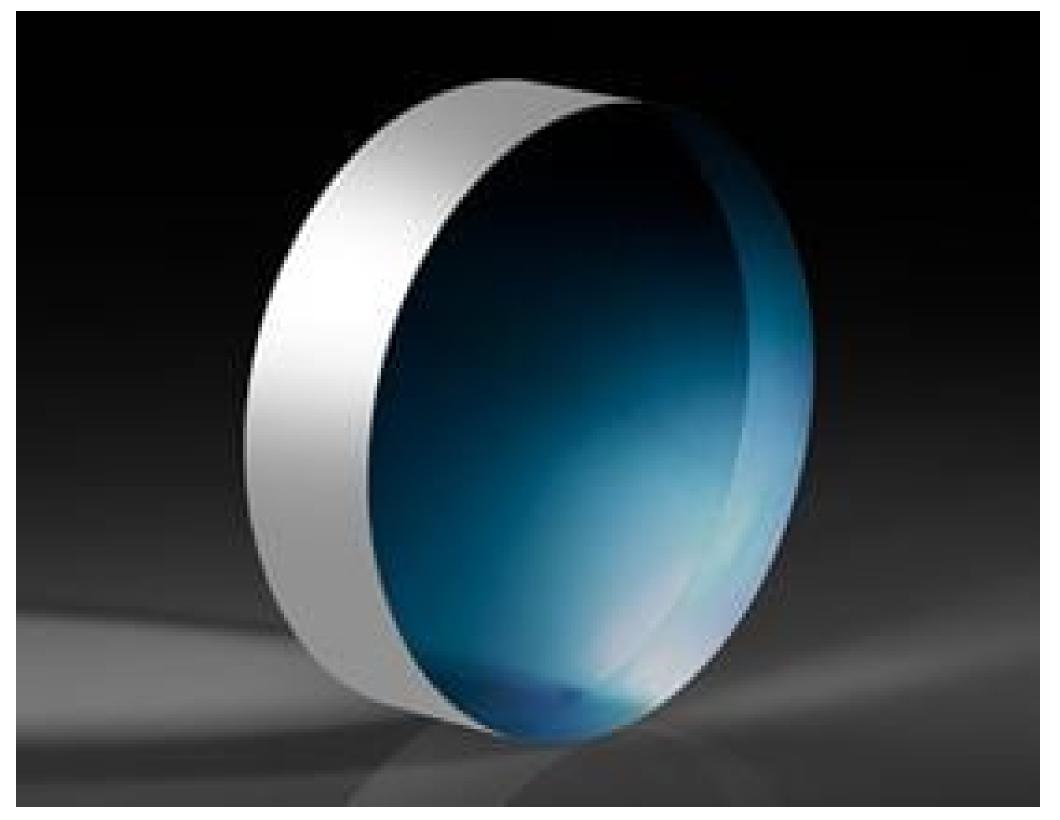


All Products / Optics / Windows and Diffusers / UV and IR Windows / 1λ UV Fused Silica Windows

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TECHSPEC 15mm Dia. 2mm Thick NIR I, 1λ Fused Silica Window



Stock **#36-973** 3-4 DAYS

ADD TO CART

Qty 1-5

£76.92

Qty 6+ £61.20

Volume Pricing

Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads



SPECIFICATIONS

General

Type: Protective Window

Physical & Mechanical Properties

Bevel: Protective as needed
Clear Aperture (%): 90
Clear Aperture CA (mm): 13.50
Diameter (mm): 15.00 +0.00/-0.20
Thickness (mm): 2.00 ±0.38
Edges: Fine Ground
Knoop Hardness (kg/mm²): 522
Parallelism (arcmin): <5
Poisson's Ratio: 0.16
Young's Modulus (GPa): 73
Optical Properties
Abbe Number (v _d): 67.8
Coating: NIR I (600-1050nm)
Coating Specification: R _{avg} ≤0.5% @ 600 - 1050nm
Index of Refraction (n _d): 1.458
Substrate: Fused Silica (Coming 7980)
Surface Flatness (P-V): 1λ
Surface Quality: 60-40
Wavelength Range (nm): 600 - 1050
Damage Threshold, Reference: □ 7 J/cm ² @ 1064nm, 10ns
Material Properties
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)
Density (g/cm³): 2.20
Regulatory Compliance
RoHS 2015: Compliant
Certificate of Conformance: View

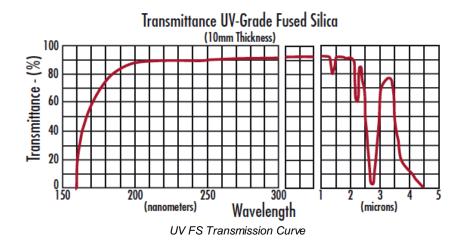
Reach 235: Compliant

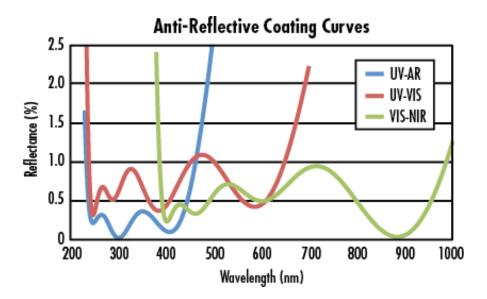
PRODUCT DETAILS

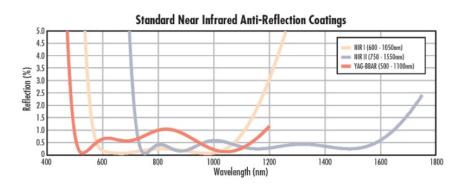
- Available Uncoated or with Broadband Anti-Reflection Coatings
- Ideal for Cost Sensitive Broadband Applications
- Circular and Square Sizes from 5mm to 100mm
- N4 or N10 UV Fused Silica Windows Also Available

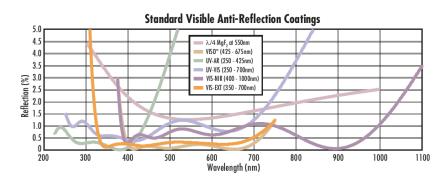
TECHSPEC® 1λ UV Fused Silica Windows are precision manufactured using UV-grade synthetic fused silica. In addition to superior transmission, the synthetic fused silica of these optical windows exhibits higher thermal properties, exceptional purity, and excellent environmental durability for demanding applications. The windows are ideal for cost-sensitive broadband applications and are available uncoated or with broadband anti-reflection coatings. TECHSPEC® 1λ UV Fused Silica Windows have circular and square sizes ranging from 5mm to 100mm. 1/10 UV Fused Silica Windows are also available.

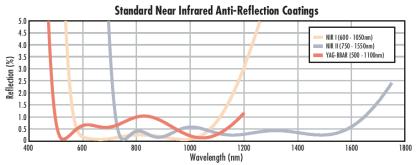
Note: New additions to this product family may be specified with a transmitted wavefront distortion (TWD) specification instead of a surface flatness. For more information on the difference between these two specifications, see our application note on <u>Understanding Optical Windows</u>.

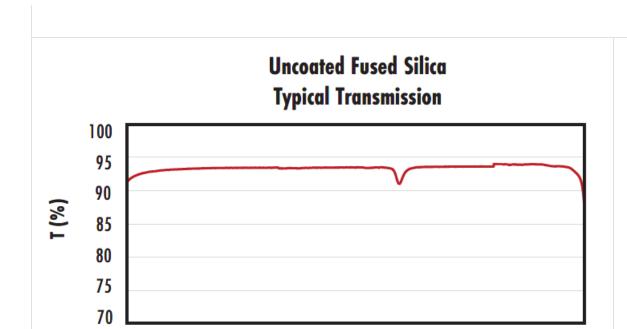






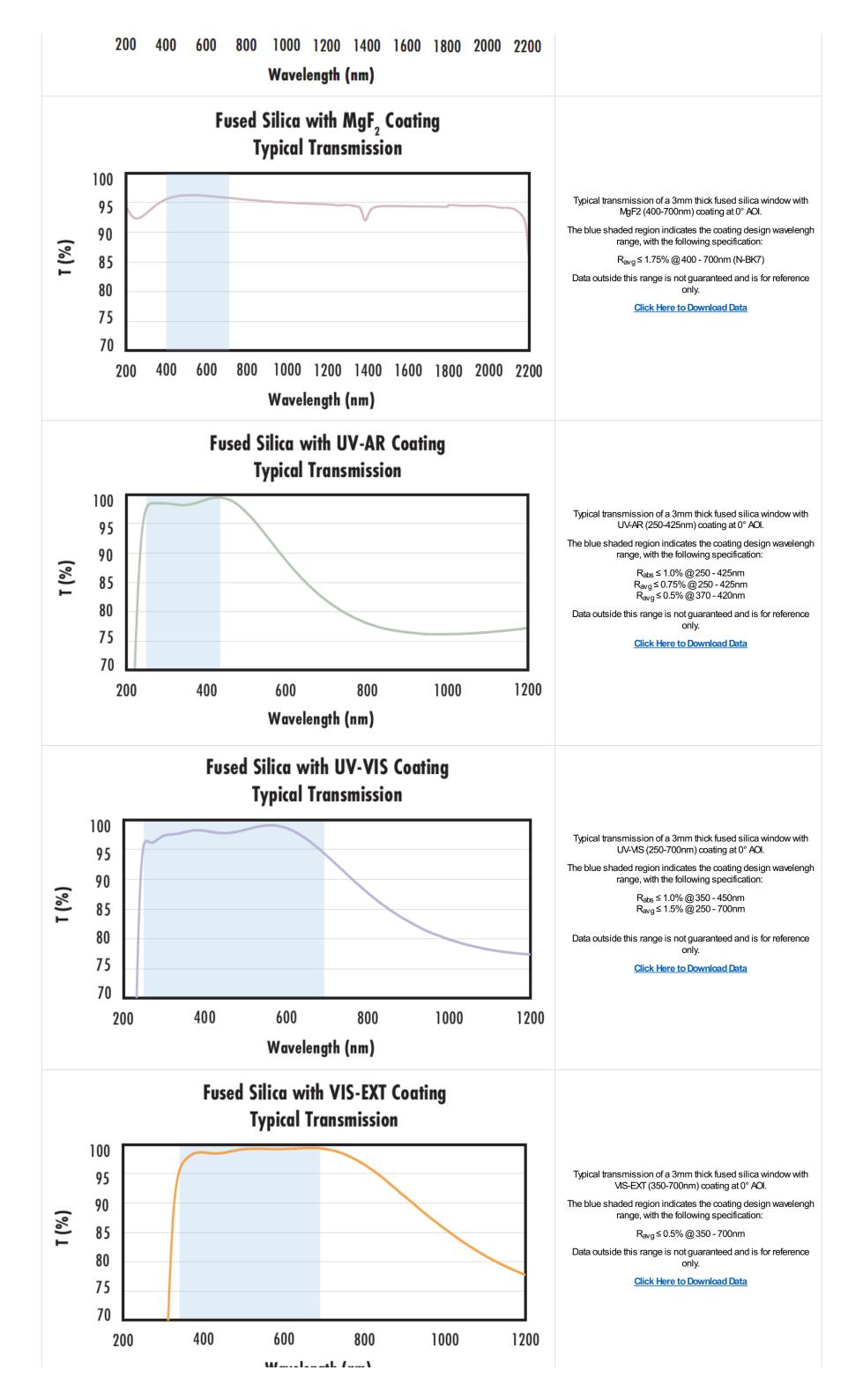


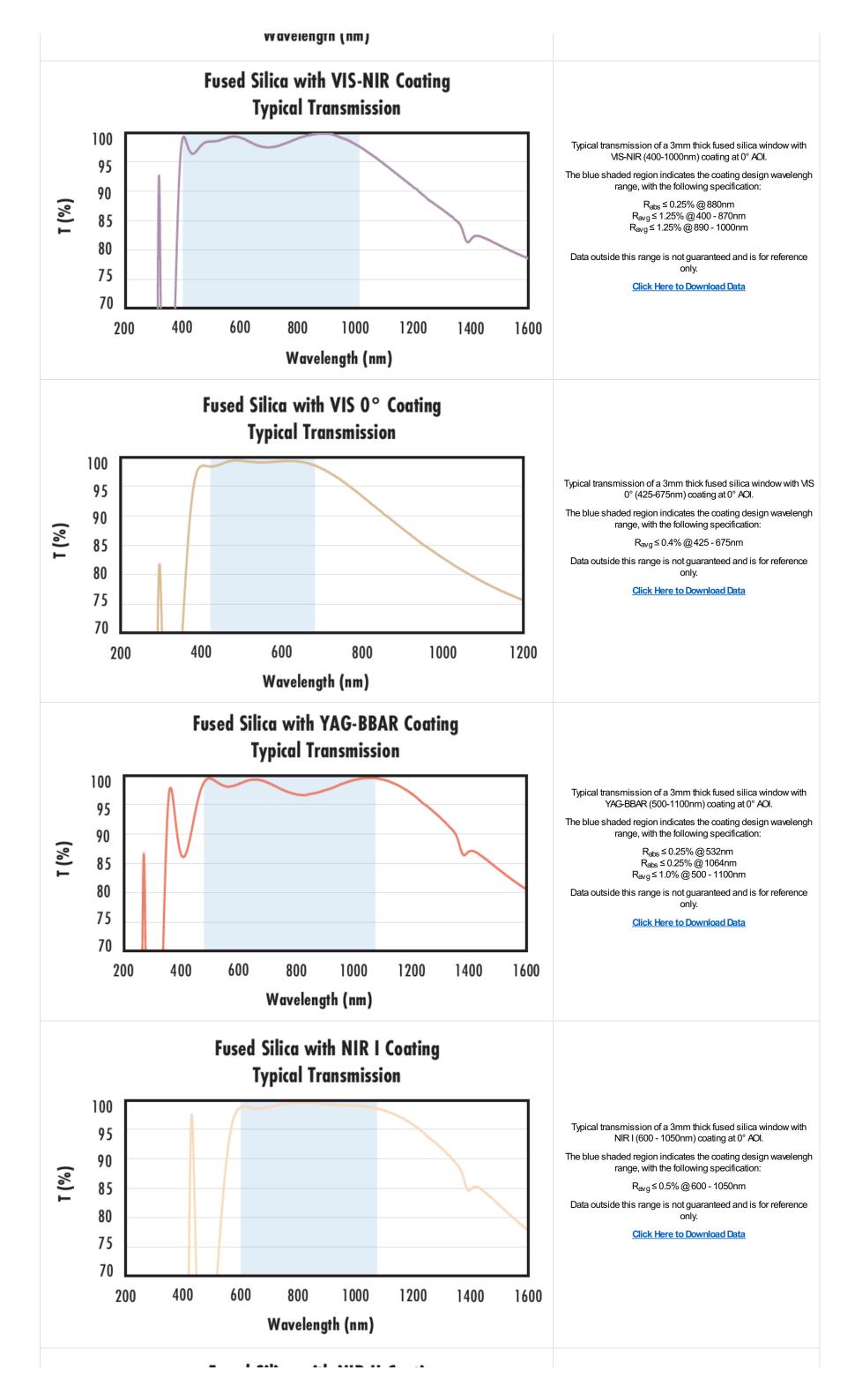


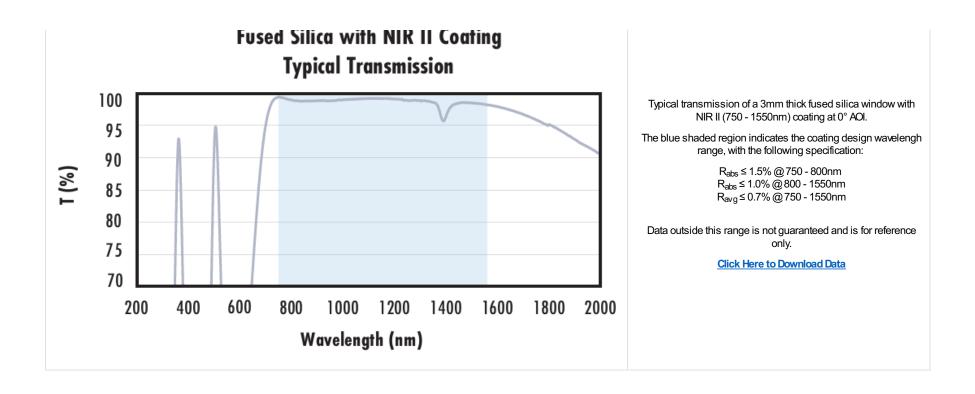


Typical transmission of a 3mm thick, uncoated fused silica window across the UV-NIR spectra.

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COMPATIBLE MOUNTS