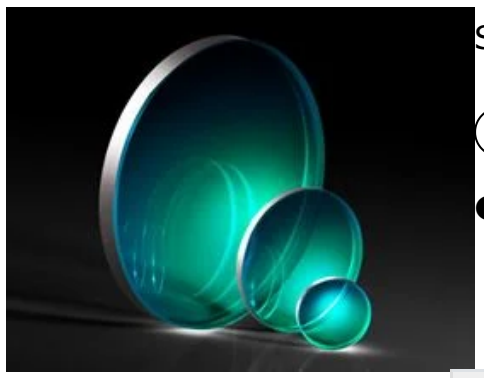
TECHSPEC®

100mm Dia., 2mm Thick, VIS-NIR Coated, λ/4 Fused Silica Window



TECHSPEC® λ/4 UV Fused Silica Window

Stock **#22-061** **1 In Stock**

- 1 +

MRP ₹76,173

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	**₹76,173** each
Qty 6-25	**₹63,057** each
Qty 26-49	**₹57,003** each
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General

Type:	Protective Window	**Type of Window:**	Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):	90.00	**Diameter (mm):**	100.00 +0.00/-0.20
Thickness (mm):	2.00 ±0.10	**Parallelism (arcmin):**	<1
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

Coating:	VIS-NIR (400-1000nm)	**Substrate:** ⓘ	**Fused Silica** (Corning 7980)
Index of Refraction (n_d):	1.458	**Surface Quality:**	40-20
Transmitted Wavefront, P-V:	λ/4 (per inch within clear aperture)	**Abbe Number (v_d):**	67.8
Coating Specification:	R_{abs} ≤0.25% @ 880nm R_{avg} ≤1.25% @ 400 - 870nm R_{avg} ≤1.25% @ 890 - 1000nm	**Wavelength Range (nm):**	400 - 1000

Damage Threshold, Reference: ⓘ	5 J/cm^2 @ 532nm, 10ns

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 0G		

Regulatory Compliance

RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
REACH 241:	**Compliant**		
Country of Origin:	Vietnam	**Imported By:**	Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

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

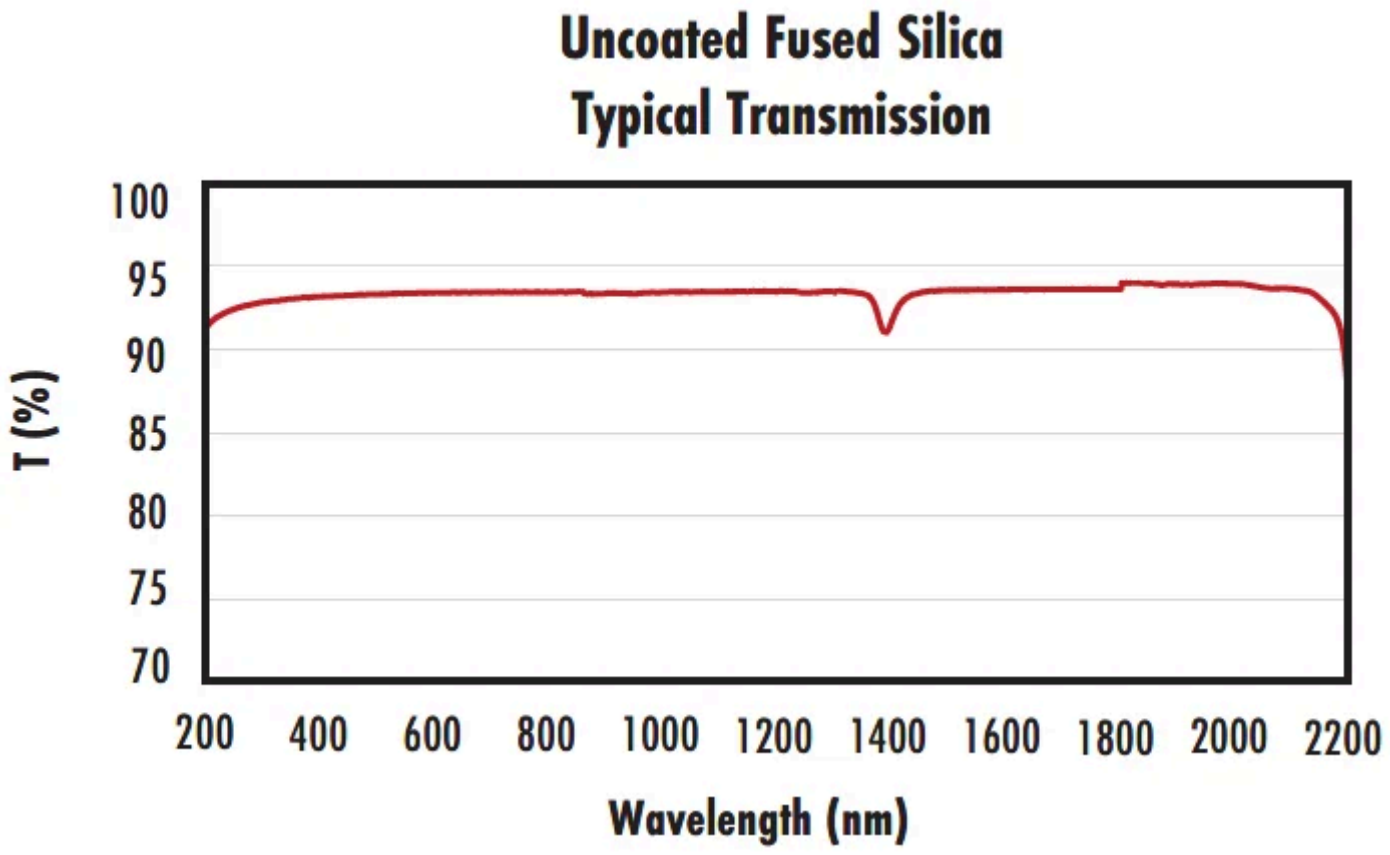
Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**

Product Details

- Available Uncoated or BBAR Coated for UV, Visible, and NIR
- Ideal for Imaging Applications
- Circular and Rectangular Sizes from 5 to 200mm
- **1λ** or **λ/10** UV Fused Silica Windows Also Available

TECHSPEC® λ/4 UV Fused Silica Windows are manufactured with 40-20 surface quality and λ/4 transmitted wavefront error specifications, making them ideal for imaging applications. Featuring UV fused silica substrates, these windows provide high transmission from the ultraviolet (UV) through the visible and near-infrared (NIR). Broadband anti-reflection (BBAR) coating options are available to minimize reflection losses and increase transmission. TECHSPEC λ/4 UV Fused Silica Windows are used in optical imaging applications, in low to medium powered laser applications, and as protective windows, especially in applications requiring transmission of UV light.

Technical Information



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

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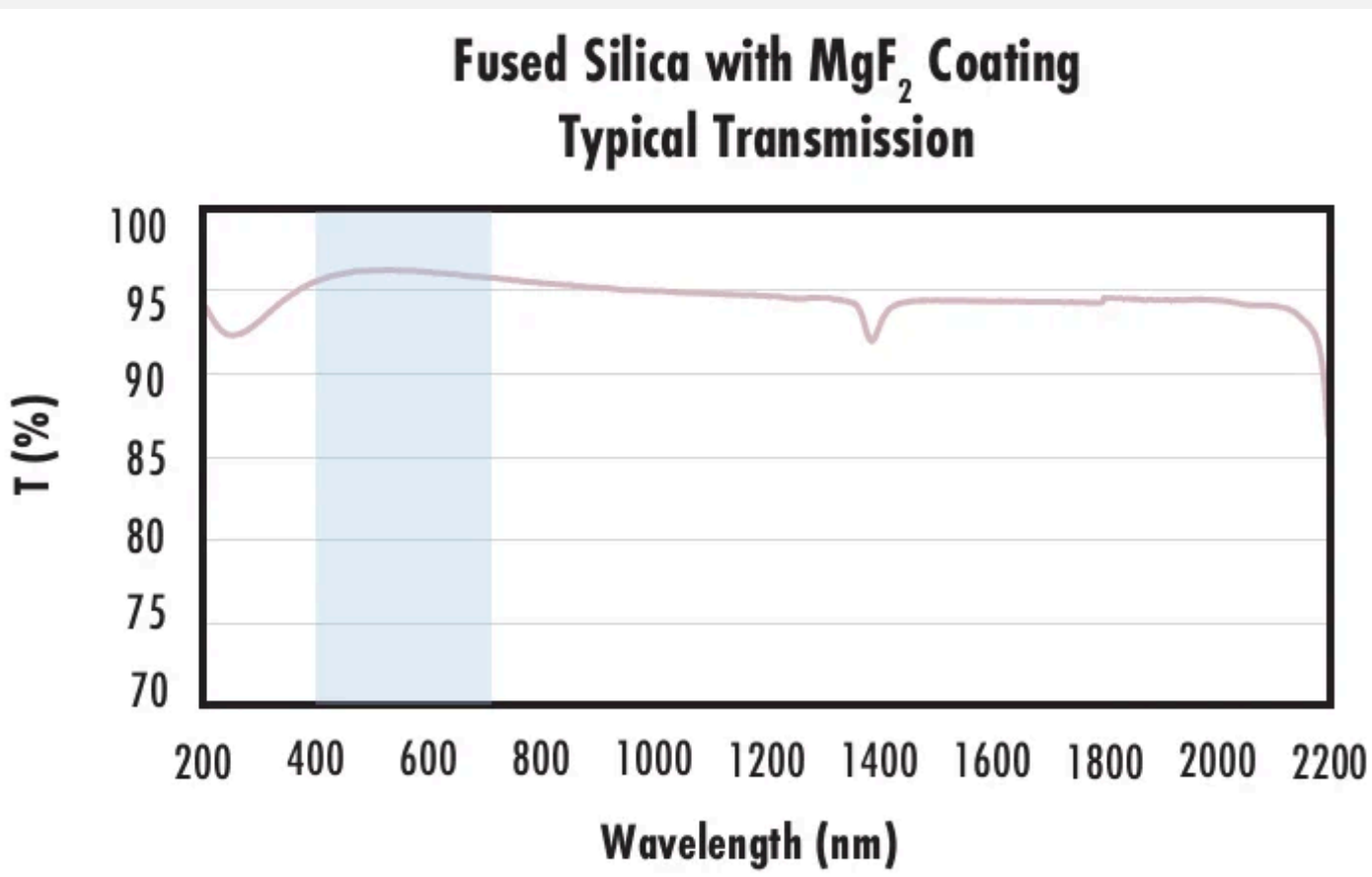

Typical transmission of a 3mm thick fused silica wind with MgF2 (400-700nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

$R_{avg} \leq 1.75\%$ @ 400 - 700nm (N-BK7)

Data outside this range is not guaranteed and is fo reference only.

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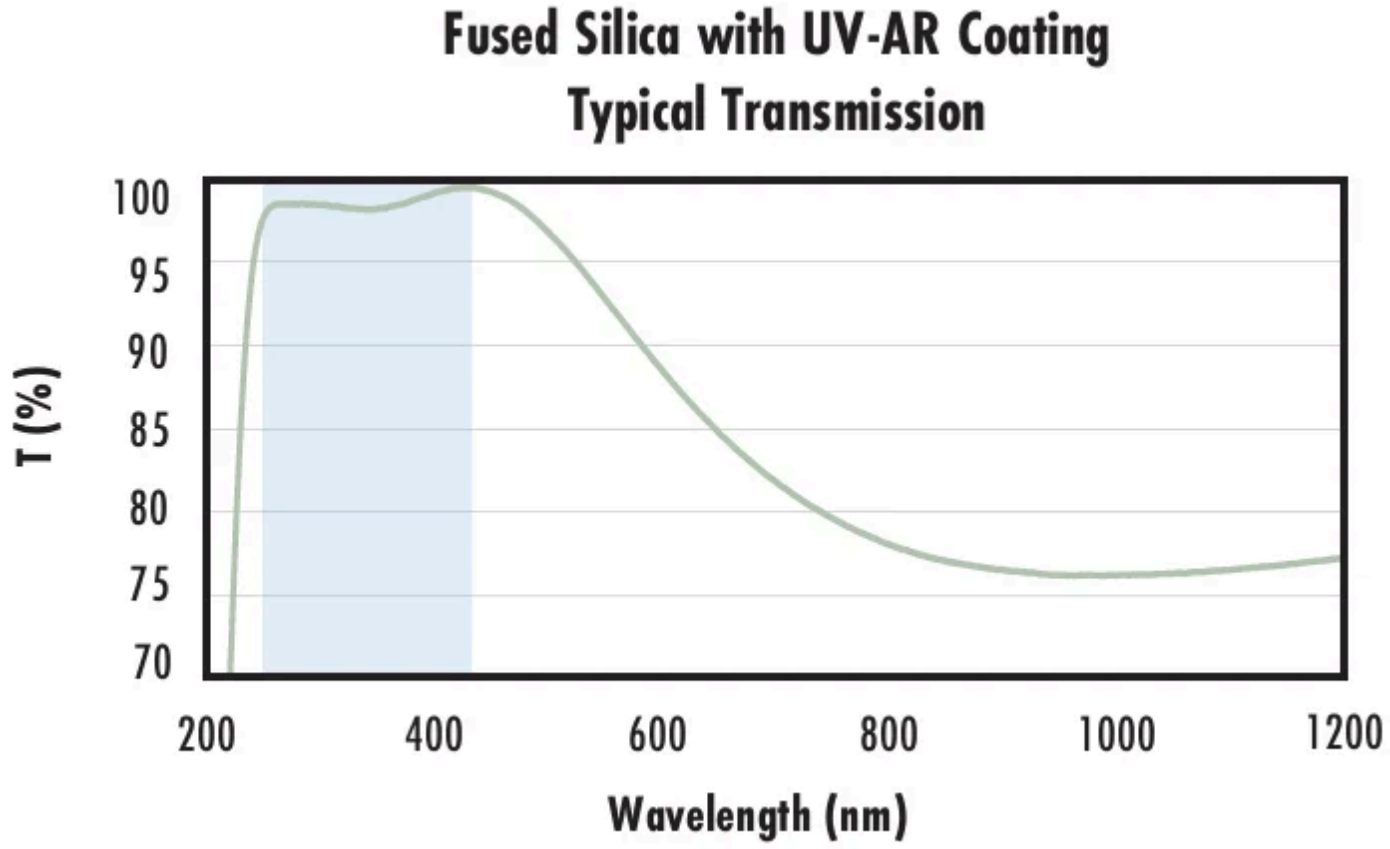

Typical transmission of a 3mm thick fused silica wind with UV-AR (250-425nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

$R_{abs} \leq 1.0\%$ @ 250 - 425nm
$R_{avg} \leq 0.75\%$ @ 250 - 425nm
$R_{avg} \leq 0.5\%$ @ 370 - 420nm

Data outside this range is not guaranteed and is fo reference only.

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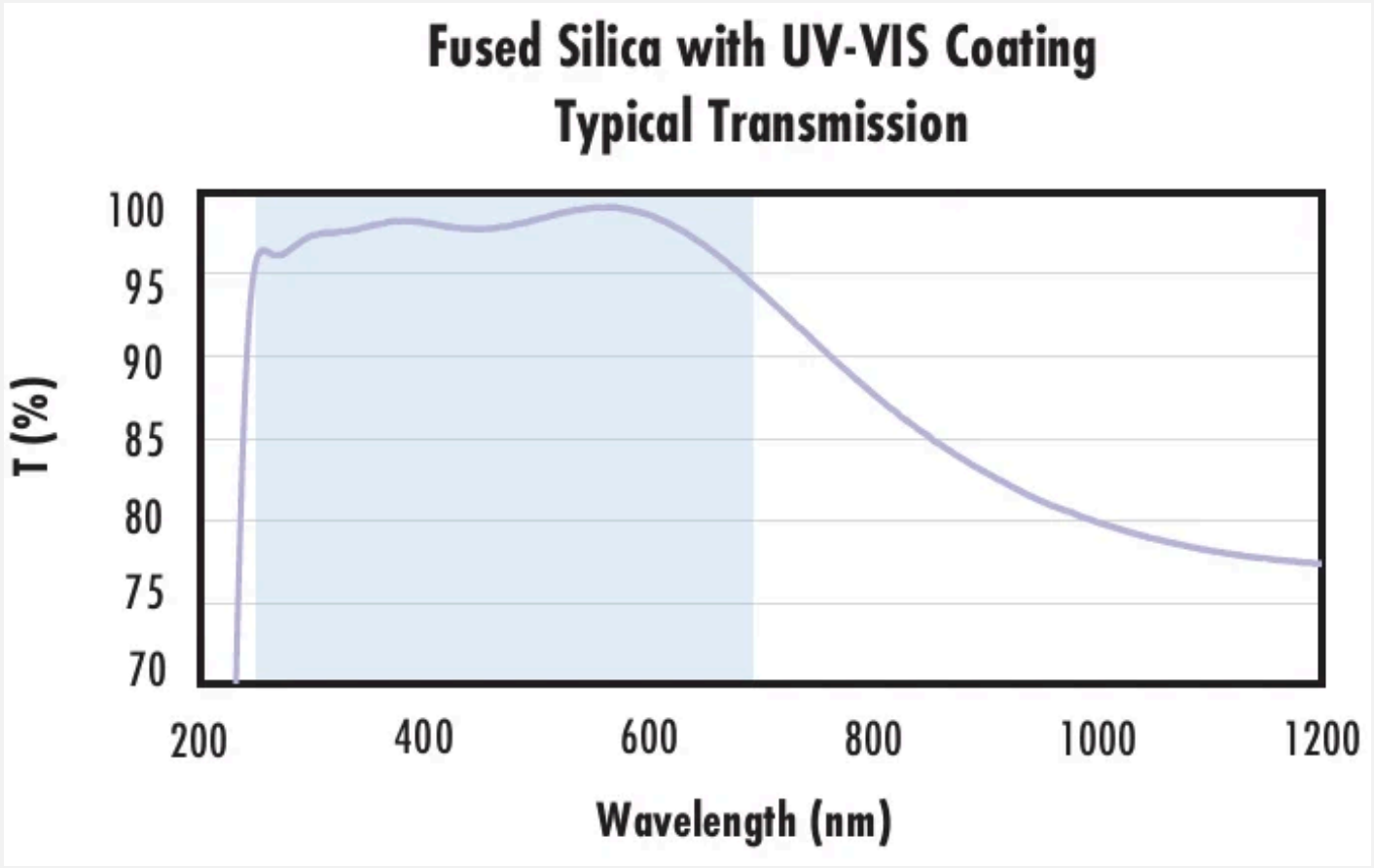

Typical transmission of a 3mm thick fused silica wind with UV-VIS (250-700nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

R_{abs} ≤ 1.0% @ 350 - 450nm
R_{avg} ≤ 1.5% @ 250 - 700nm

Data outside this range is not guaranteed and is fo reference only.

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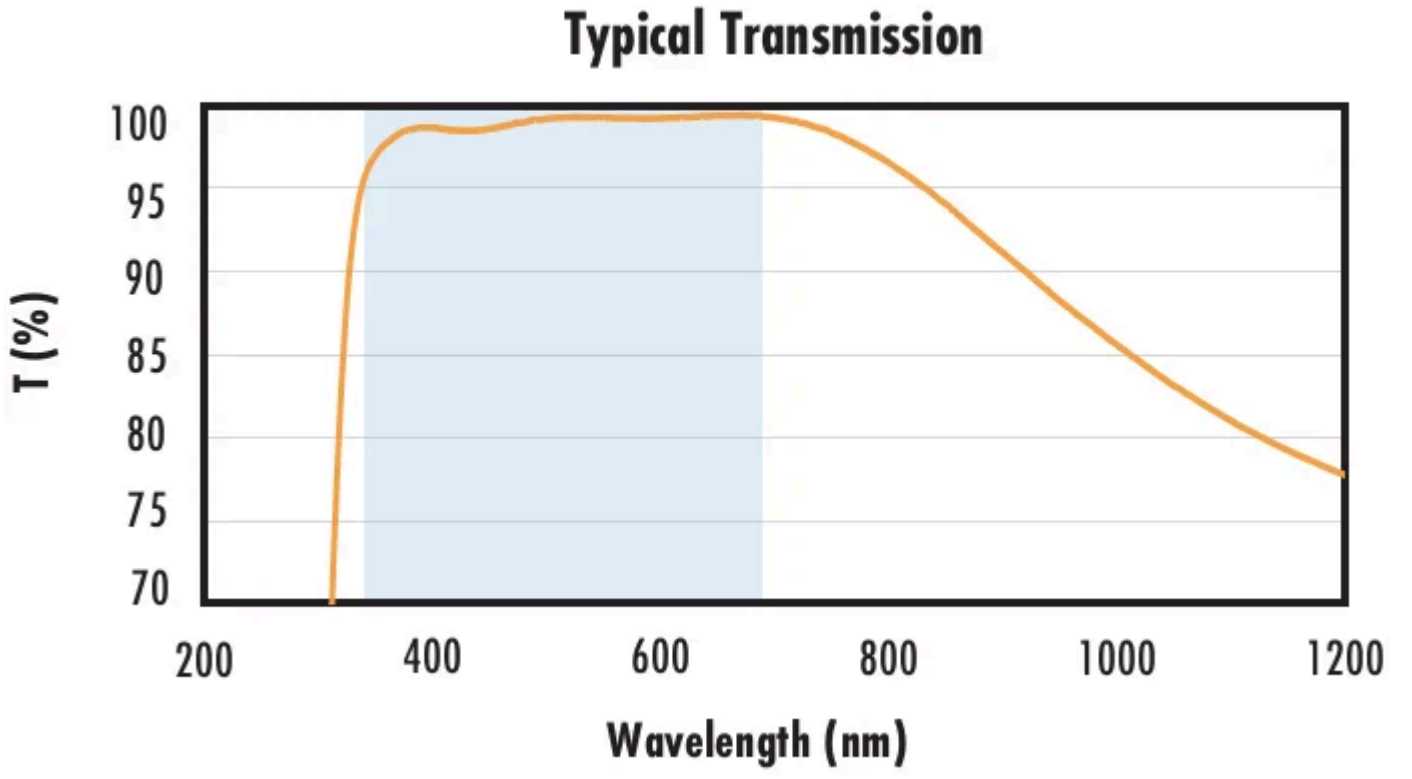

Typical transmission of a 3mm thick fused silica wind with VIS-EXT (350-700nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

R_{avg} ≤ 0.5% @ 350 - 700nm

Data outside this range is not guaranteed and is fo reference only.

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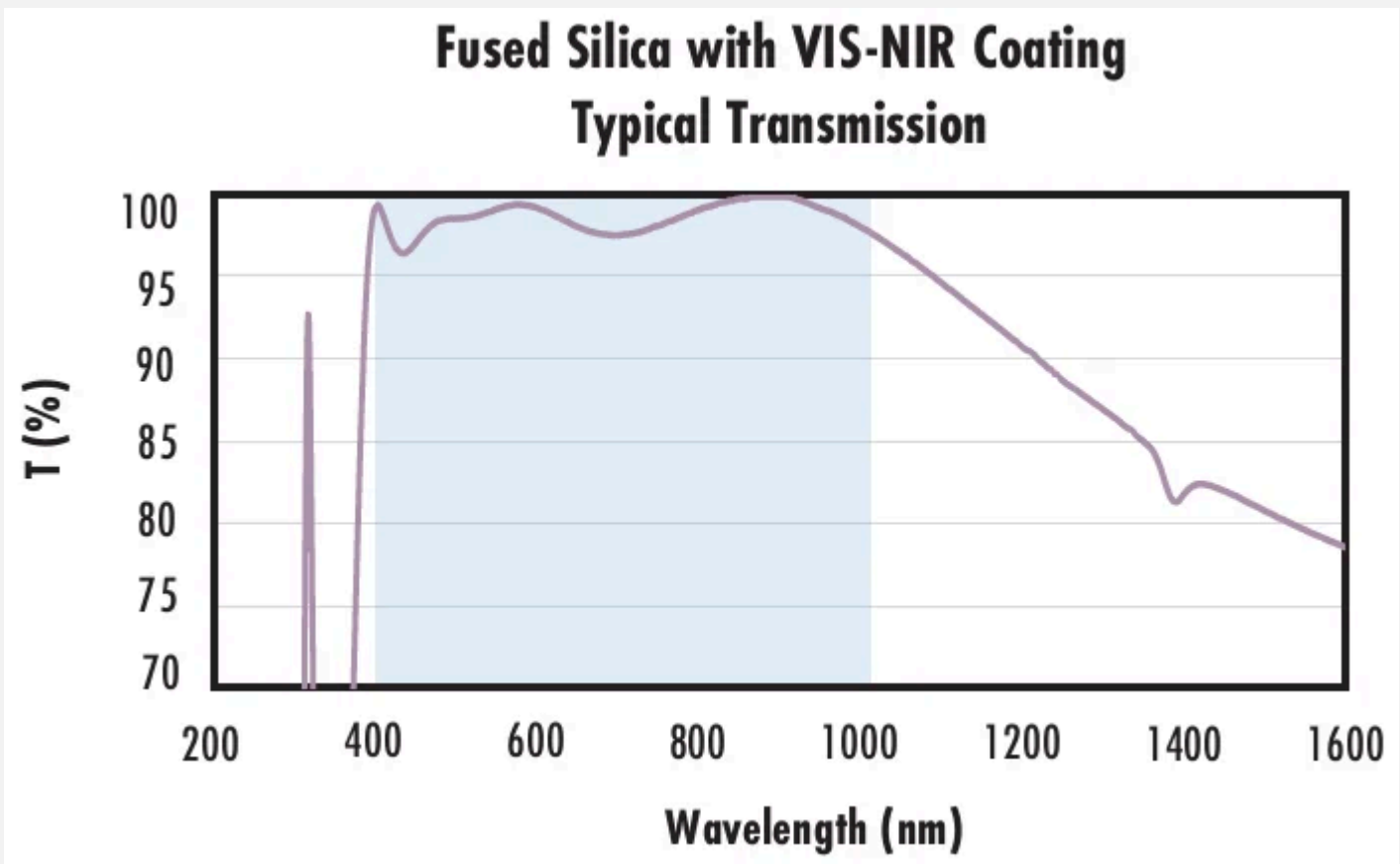

Typical transmission of a 3mm thick fused silica wind with VIS-NIR (400-1000nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

R_{abs} ≤ 0.25% @ 880nm
R_{avg} ≤ 1.25% @ 400 - 870nm
R_{avg} ≤ 1.25% @ 890 - 1000nm

Data outside this range is not guaranteed and is fo reference only.

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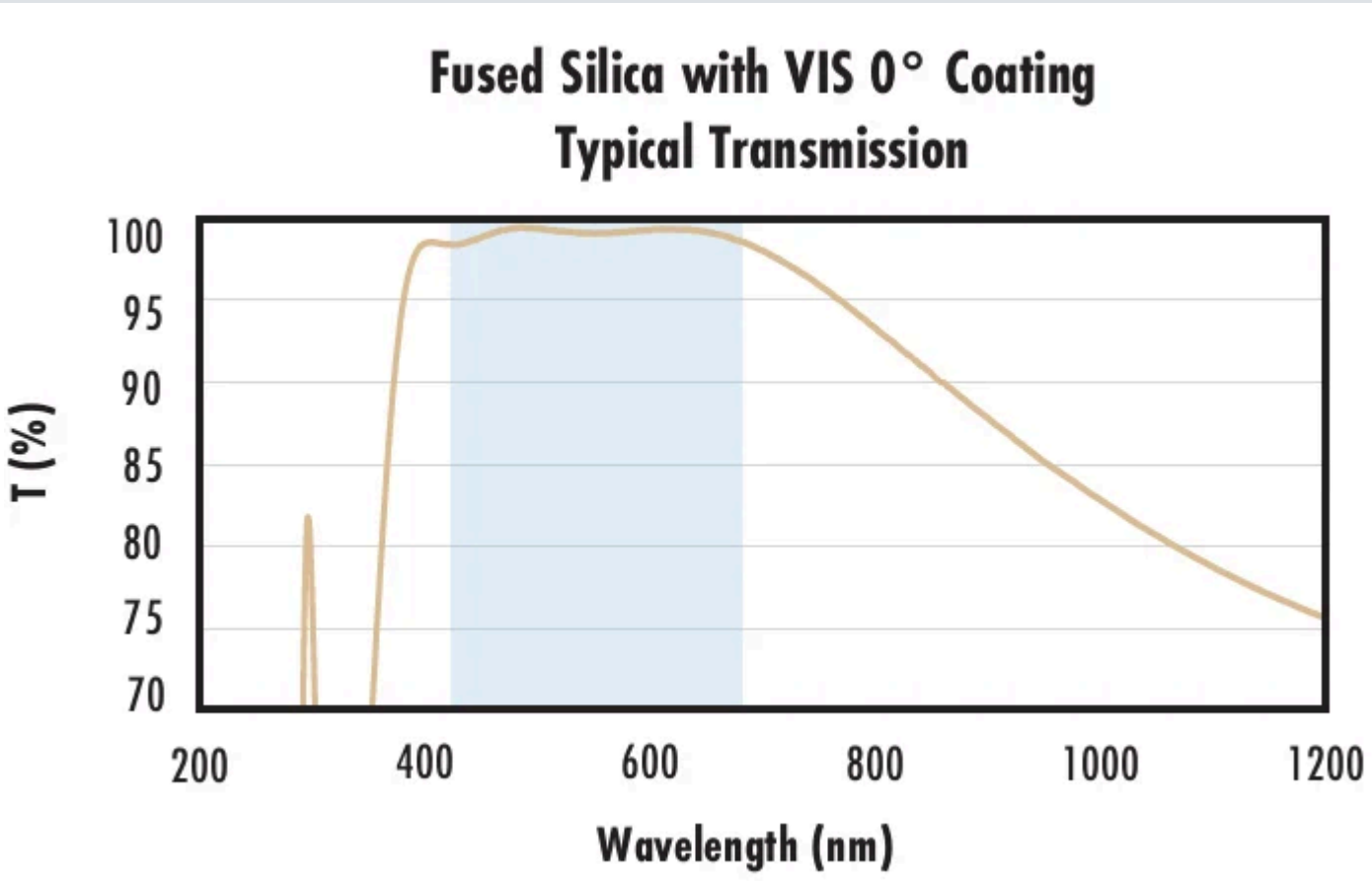

Typical transmission of a 3mm thick fused silica wind with VIS 0° (425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

$R_{avg} \leq 0.4\%$ @ 425 - 675nm

Data outside this range is not guaranteed and is fo reference only.

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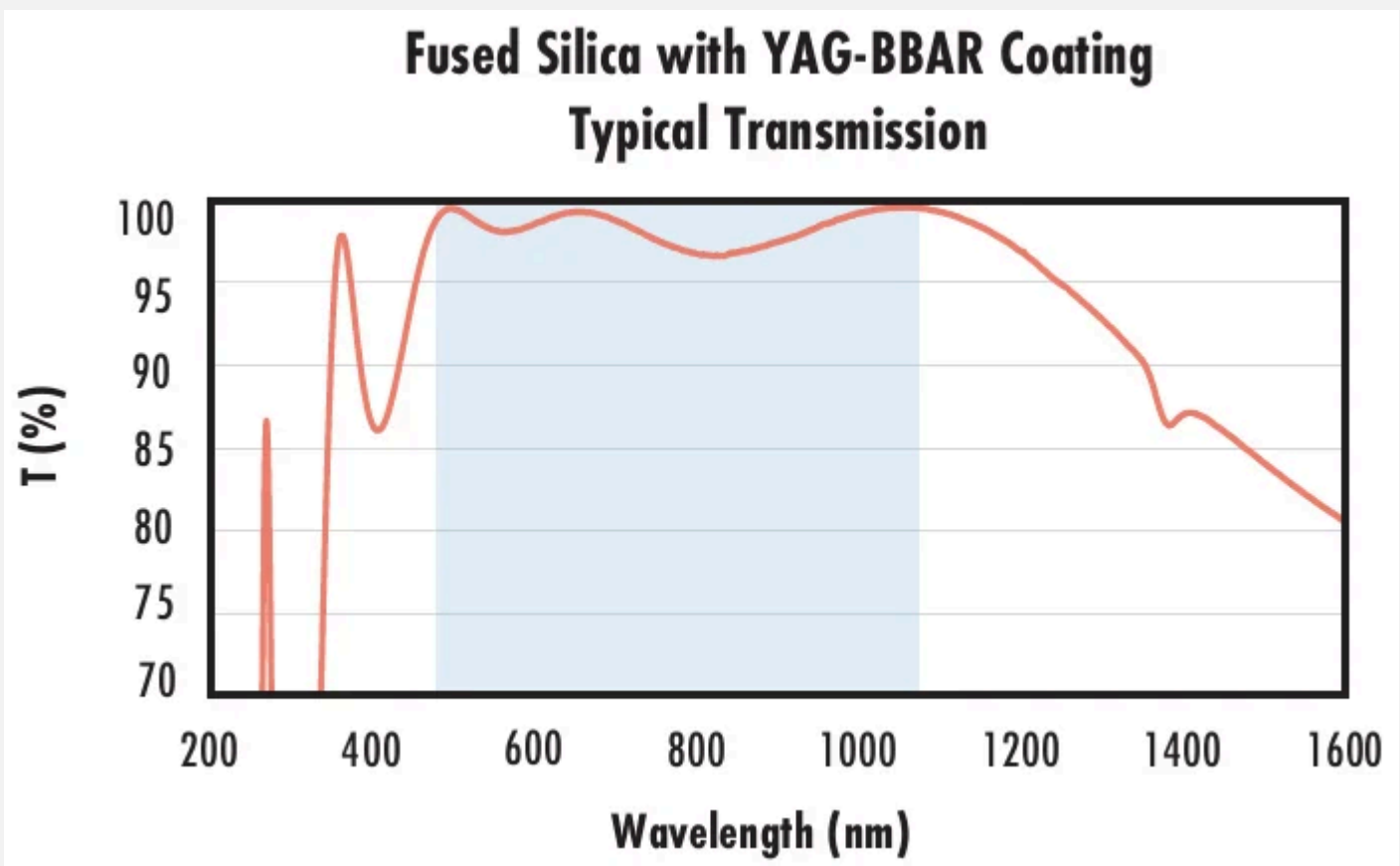

Typical transmission of a 3mm thick fused silica wind with YAG-BBAR (500-1100nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

$R_{abs} \leq 0.25\%$ @ 532nm
$R_{abs} \leq 0.25\%$ @ 1064nm
$R_{avg} \leq 1.0\%$ @ 500 - 1100nm

Data outside this range is not guaranteed and is fo reference only.

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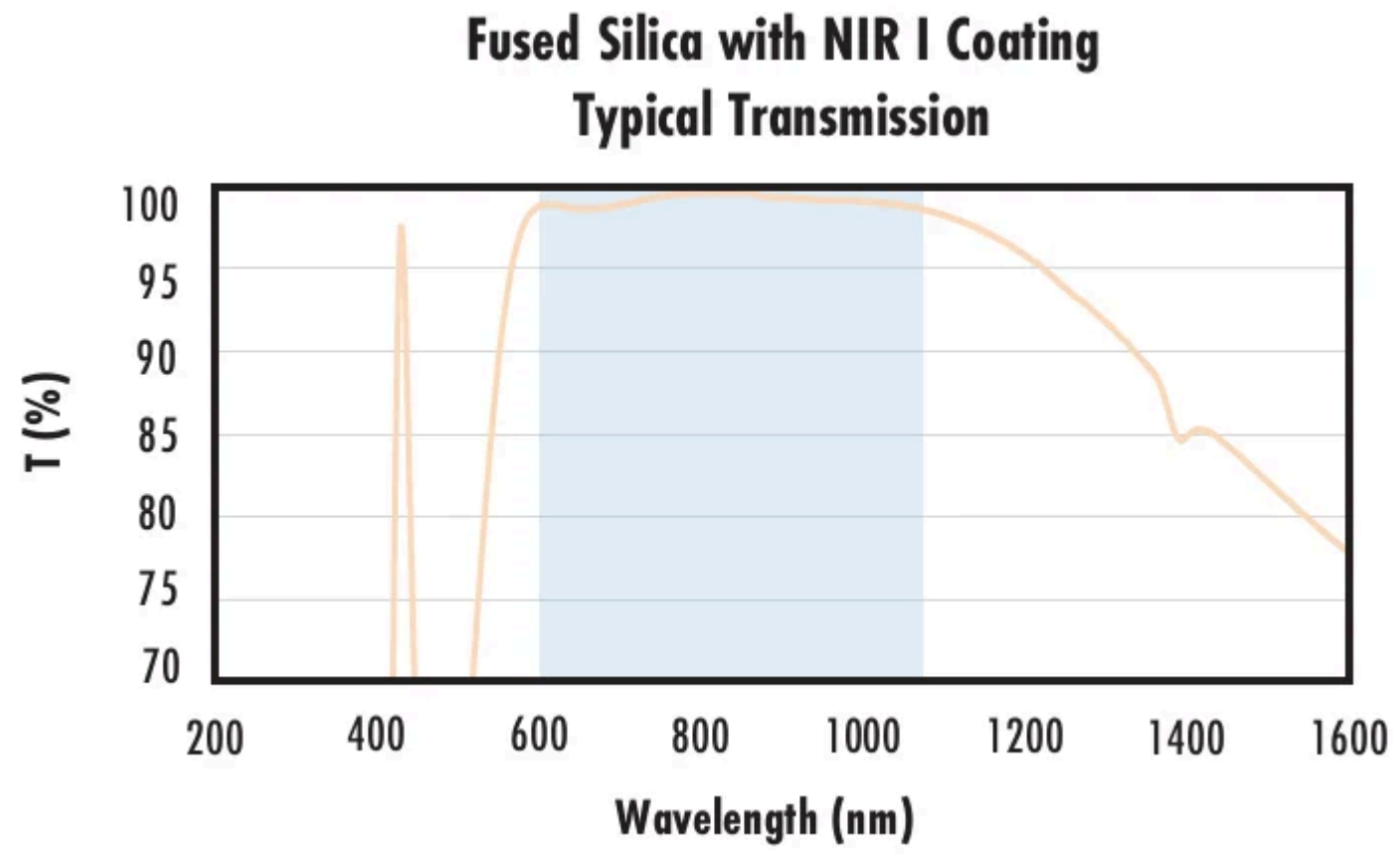

Typical transmission of a 3mm thick fused silica wind with NIR I (600 - 1050nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

$R_{avg} \leq 0.5\%$ @ 600 - 1050nm

Data outside this range is not guaranteed and is fo reference only.

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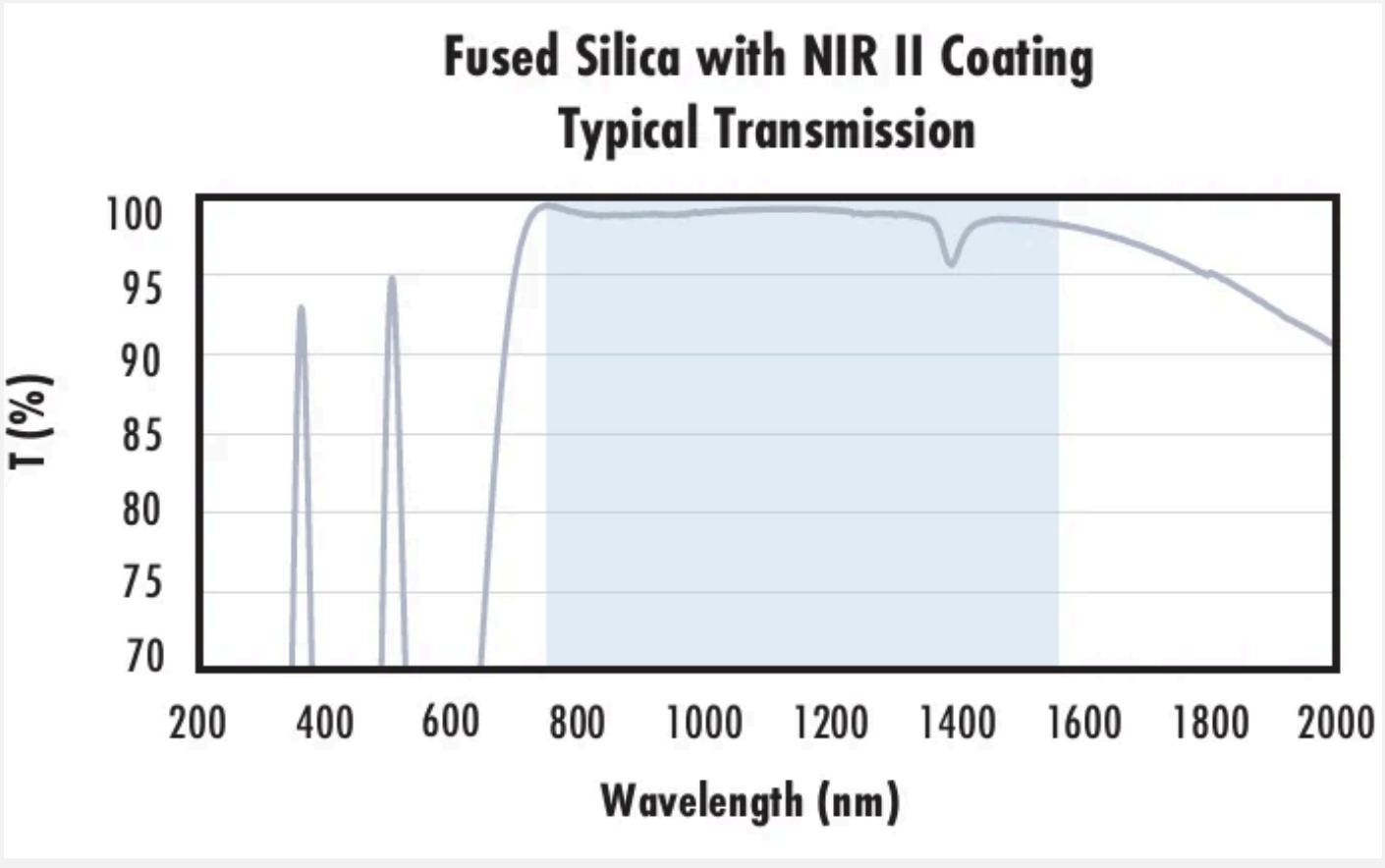

Typical transmission of a 3mm thick fused silica wind with NIR II (750 - 1550nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

R_{abs} ≤ 1.5% @ 750 - 800nm
R_{abs} ≤ 1.0% @ 800 - 1550nm
R_{avg} ≤ 0.7% @ 750 - 1550nm

Data outside this range is not guaranteed and is fo reference only.

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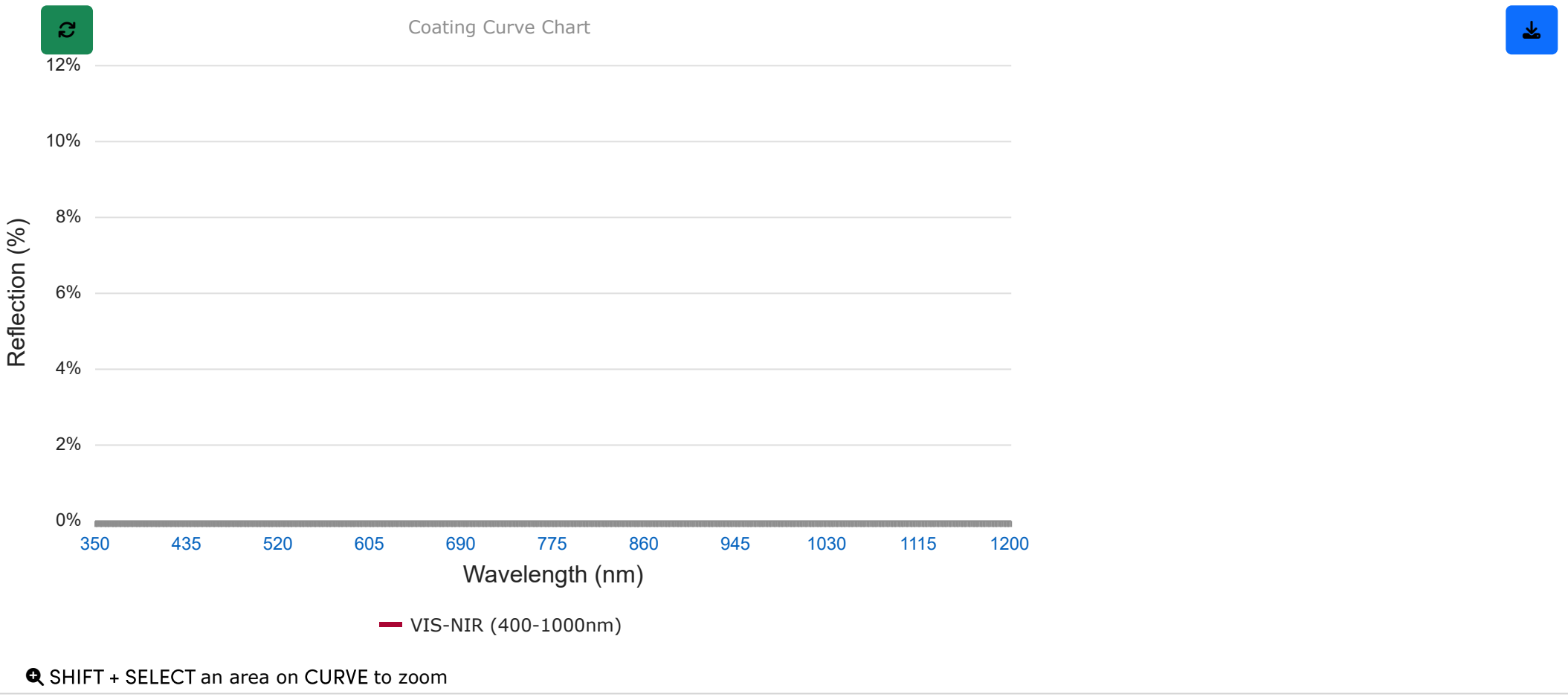
Coating Curves

VIS-NIR (400-1000nm)



Please note that coating performance outside each product's specified design range is theoretical and may vary.

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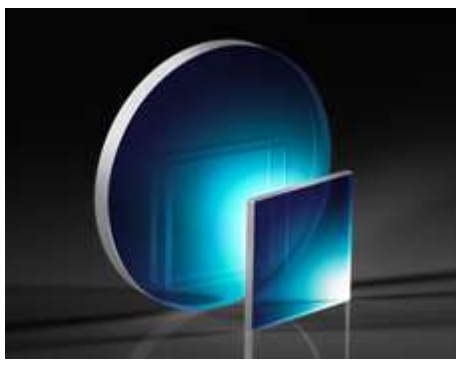
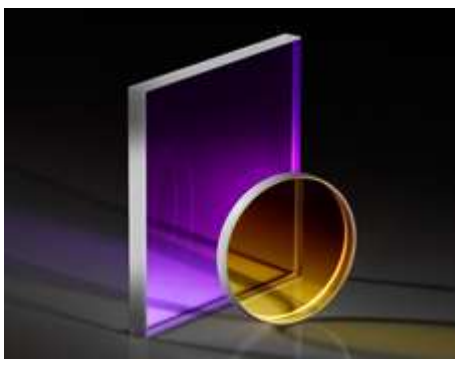


λ/10 UV Fused Silica Windows

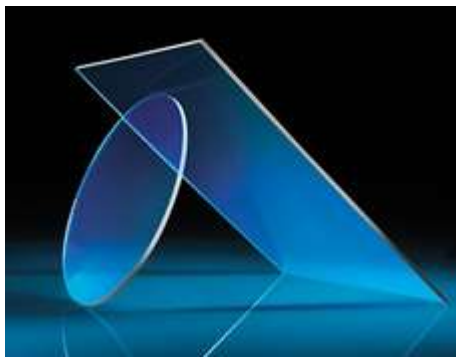


1λ UV Fused Silica Windows

C, S, and T-Mount Circular Optic Mounts

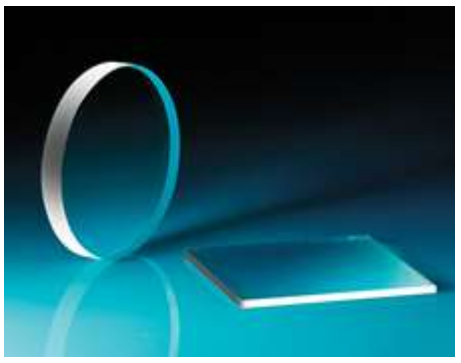
PUROSOL™ Optical Cleaner

Frequently Purchased Together



#43-928 – 4" x 5" Size, Plastic Optical Window
₹4,843

Qty

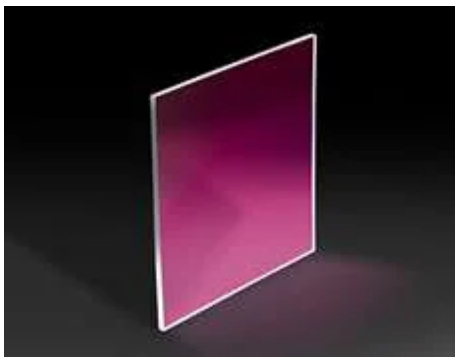


#48-930 – 101.6mm Dia. x 1mm High Efficiency Window
₹4,641

Qty

#58-861 – 50/50.8mm Sq. Kinematic Mount, 3 Screws
₹15,840

Qty



#83-367 – 100 x 100mm, 1.1mm Thick, Uncoated, Gorilla Glass® Window
₹6,053

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	₹12,107 Request Quote	10 In Stock 1
MORE+ 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	₹41,365 Request Quote	CONTACT US 1

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