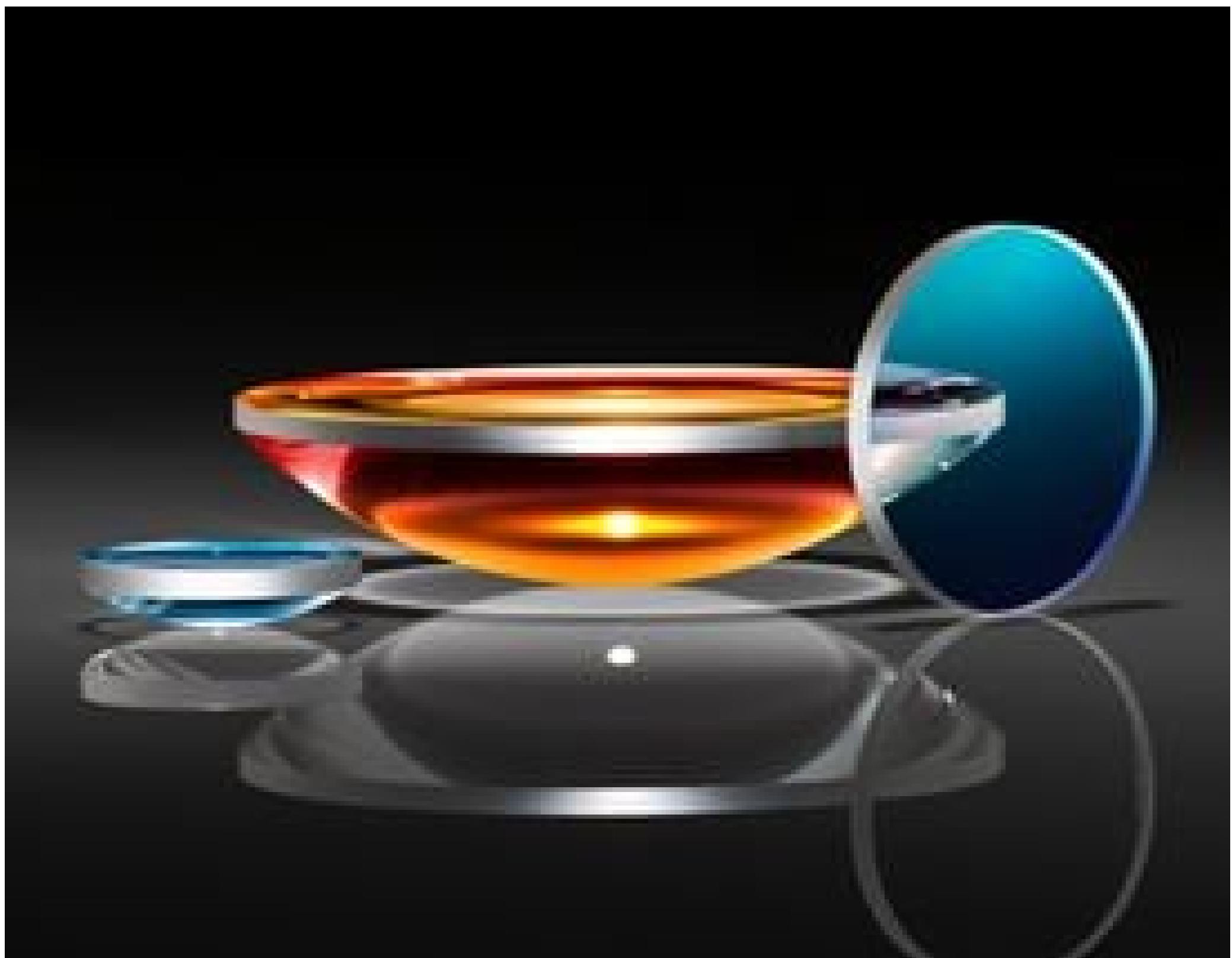


TECHSPEC® 20mm Dia. x 30mm FL, YAG-BBAR Coated, Plano-Convex Lens

UV Fused Silica Plano-Convex (PCX) Lenses

Stock #18-153 **2 In Stock** 1 A\$281^{.60}**ADD TO CART**

Volume Pricing	
Qty 1-5	A\$281.60 each
Qty 6-25	A\$225.60 each
Qty 26-49	A\$211.20 each
Need More?	Request Quote

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SPECIFICATIONS**General**

Type:

Physical & Mechanical Properties

	Diameter (mm):
20.00-0.025	
	Centering (arcmin):
<1	
	Center Thickness CT (mm):
6.00 ±0.10	
	Edge Thickness ET (mm):
1.69	
	Clear Aperture CA (mm):
19	
	Bevel:
Protective as needed	

Optical Properties

	Effective Focal Length EFL (mm):
30.00 @ 587.6nm	
	Back Focal Length BFL (mm):
25.88	
	Coating:
YAG-BBAR (500-1100nm)	
	Coating Specification:
$R_{abs} < 0.25\% @ 532\text{nm}$	
$R_{abs} < 0.25\% @ 1064\text{nm}$	
$R_{avg} < 1.0\% @ 500 - 1100\text{nm}$	
	Substrate: <input type="checkbox"/>
Fused Silica (Corning 7980)	
	Surface Quality:
40-20	
	Power (P-V) @ 632.8nm:
3 Rings	
	Irregularity (P-V) @ 632.8nm:
0.5 Rings	
	Focal Length Tolerance (%):
±1	
	Radius R_1 (mm):
13.75	
	f#:
1.5	
	Numerical Aperture NA:
0.33	
	Wavelength Range (nm):
500 - 1100	
	Damage Threshold, By Design: <input type="checkbox"/>
5 J/cm ² @ 532nm, 10ns	

Regulatory Compliance

	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	Reach 235:
Compliant	

PRODUCT DETAILS

- AR Coated to Provide <1.0% Reflection per Surface for 500 - 1100nm
- Precision Fused Silica Substrate
- Various Coating Options: **Uncoated, MgF₂, UV-AR, UV-VIS, VIS-EXT, VIS-NIR, VIS 0°, NIR I, and NIR II**

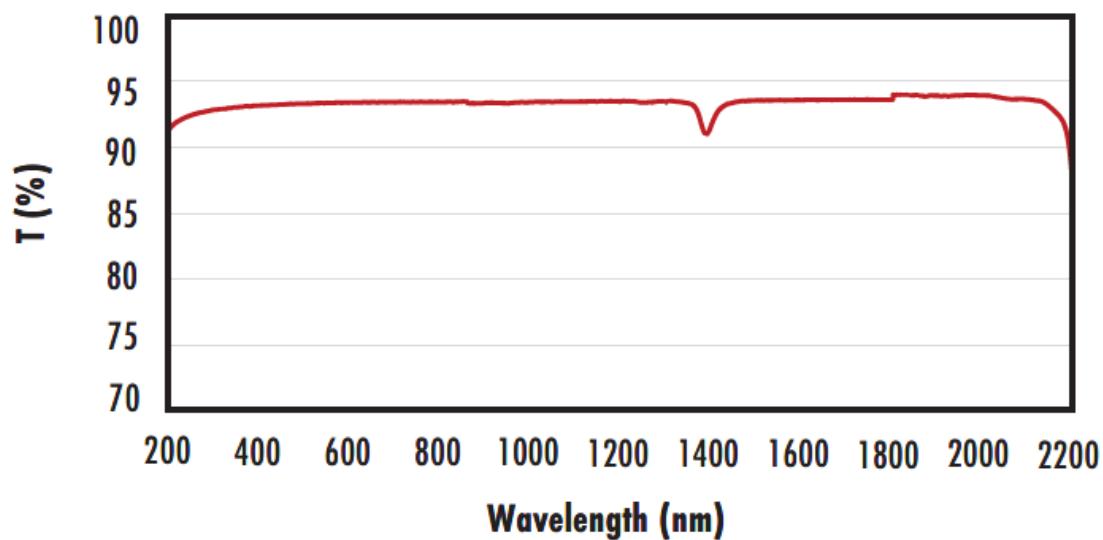
TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses YAG-BBAR Coated feature precision specifications and a [variety of coating options](#) on a broadband substrate. Fused Silica is commonly used in applications from the Ultraviolet (UV) through the Near-Infrared (NIR). Its low index of refraction, low coefficient of thermal expansion, and low inclusion content make it ideal for laser applications and harsh environmental conditions. TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses YAG-BBAR Coated feature industry leading diameter and centration specifications, making them ideal for integration into demanding imaging and targeting applications. These lenses are YAG-BBAR coated and feature less than 0.25% reflection at common Nd:YAG laser wavelengths of 532nm and 1064nm.

TECHNICAL INFORMATION

FUSED SILICA

Uncoated Fused Silica

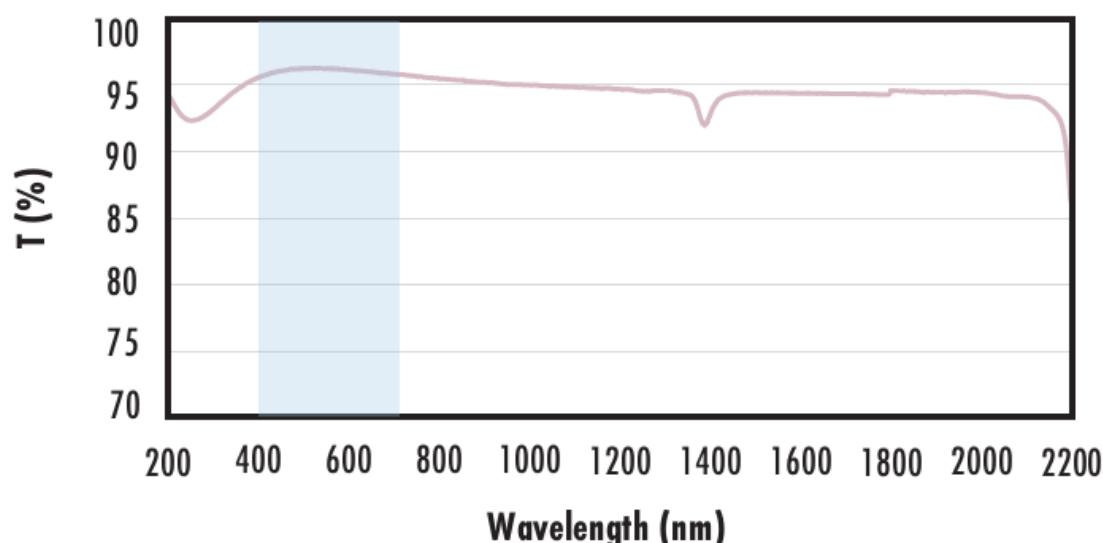
Typical Transmission



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

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Fused Silica with MgF_2 Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with MgF_2 (400-700nm) coating at 0° AOI.

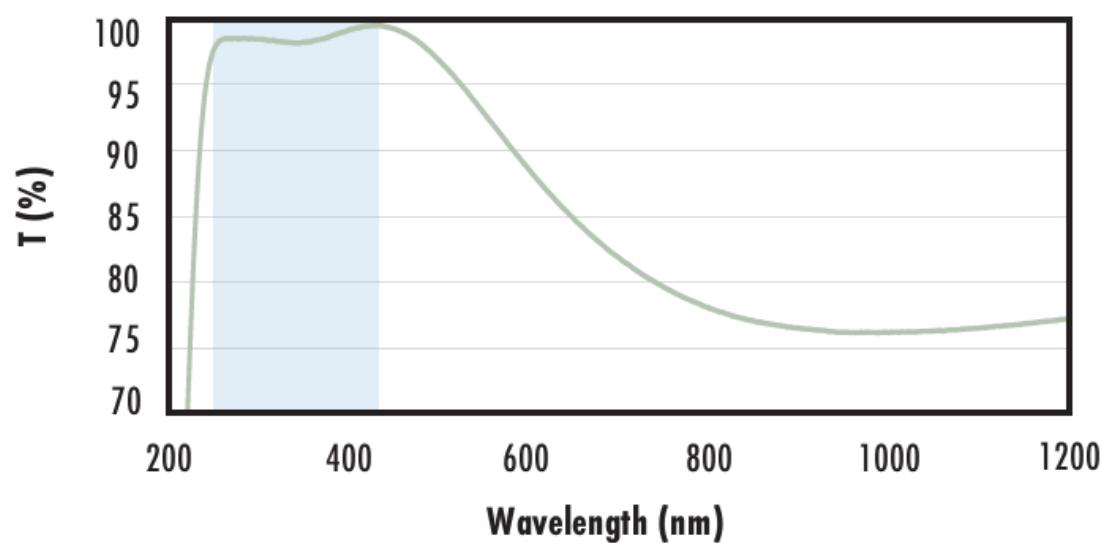
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

Fused Silica with UV-AR Coating Typical Transmission



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

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{abs} \leq 1.0\% \text{ @ 250 - 425nm}$$

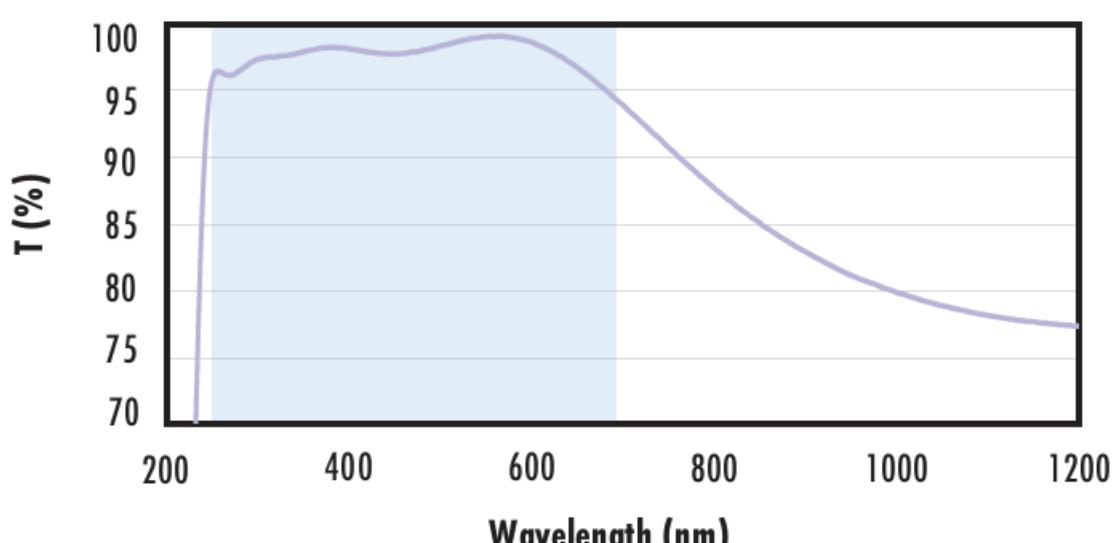
$$R_{avg} \leq 0.75\% \text{ @ 250 - 425nm}$$

$$R_{avg} \leq 0.5\% \text{ @ 370 - 420nm}$$

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

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Fused Silica with UV-VIS Coating Typical Transmission



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

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{abs} \leq 1.0\% \text{ @ 350 - 450nm}$$

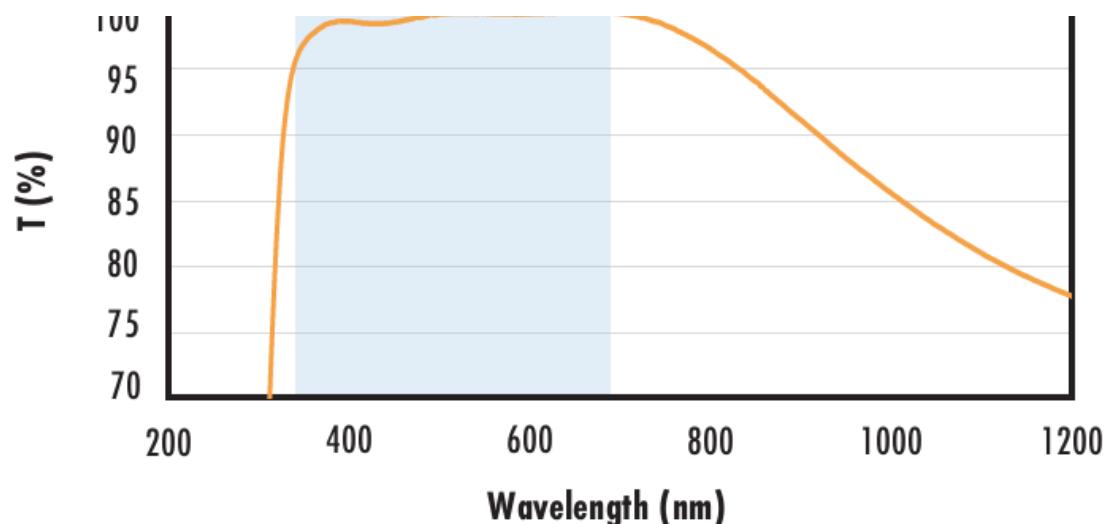
$$R_{avg} \leq 1.5\% \text{ @ 250 - 700nm}$$

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

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Fused Silica with VIS-EXT Coating Typical Transmission

100  0



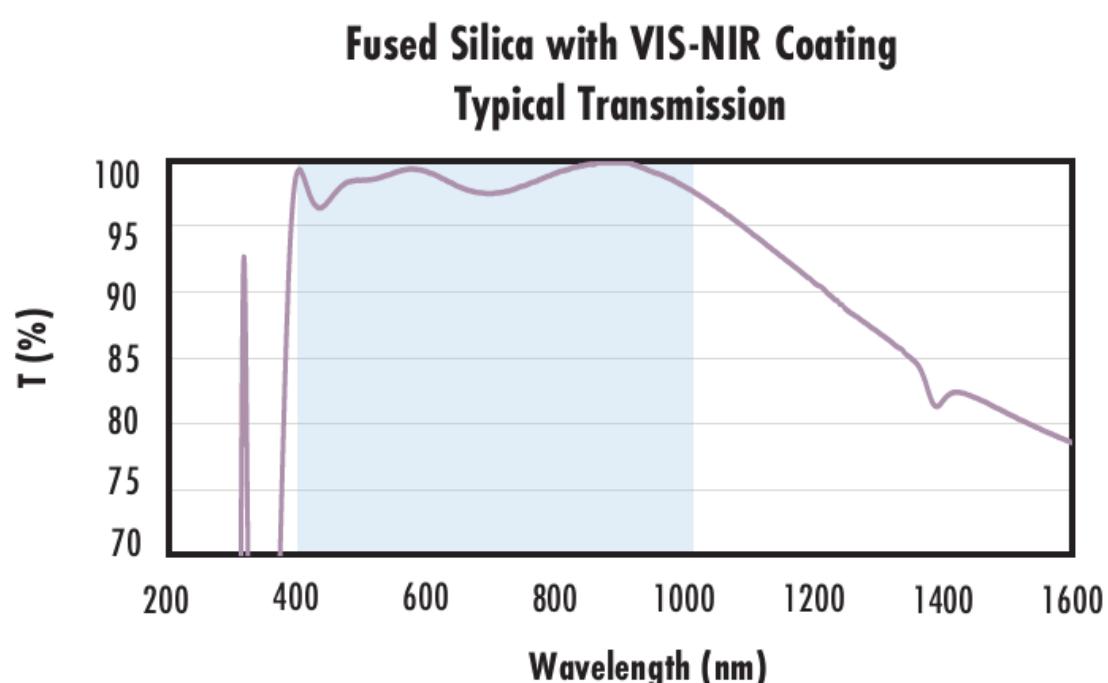
Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% @ 350 - 700nm$$

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

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

The blue shaded region indicates the coating design wavelength range, with the following specification:

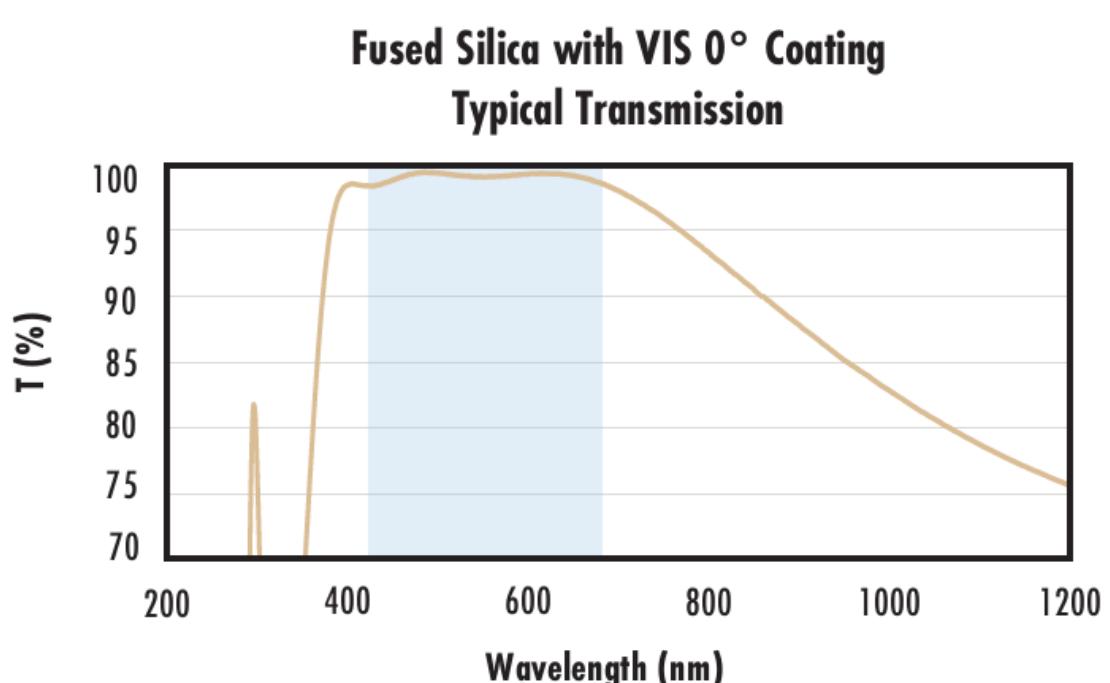
$$R_{abs} \leq 0.25\% @ 880nm$$

$$R_{avg} \leq 1.25\% @ 400 - 870nm$$

$$R_{avg} \leq 1.25\% @ 890 - 1000nm$$

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

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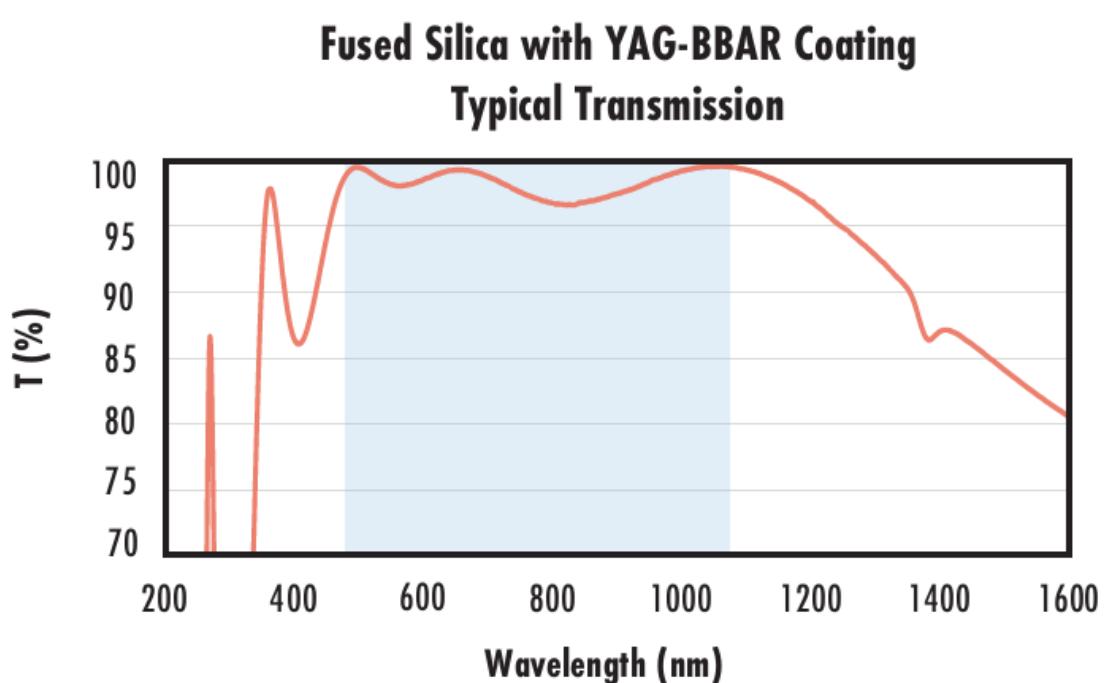
Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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

The blue shaded region indicates the coating design wavelength range, with the following specification:

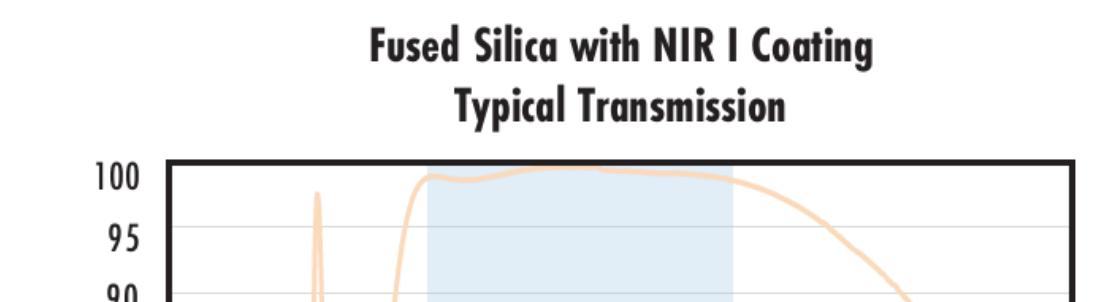
$$R_{abs} \leq 0.25\% @ 532nm$$

$$R_{abs} \leq 0.25\% @ 1064nm$$

$$R_{avg} \leq 1.0\% @ 500 - 1100nm$$

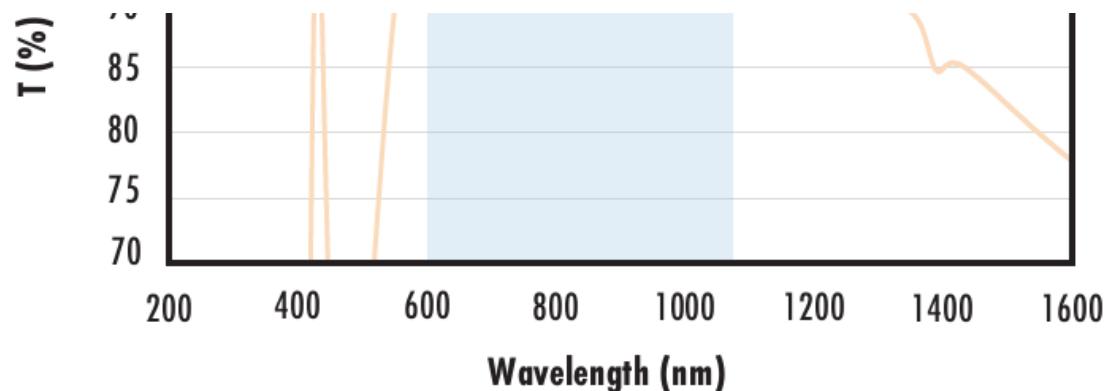
Data outside this range is not guaranteed and is for reference only.

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

The blue shaded region indicates the coating design wavelength



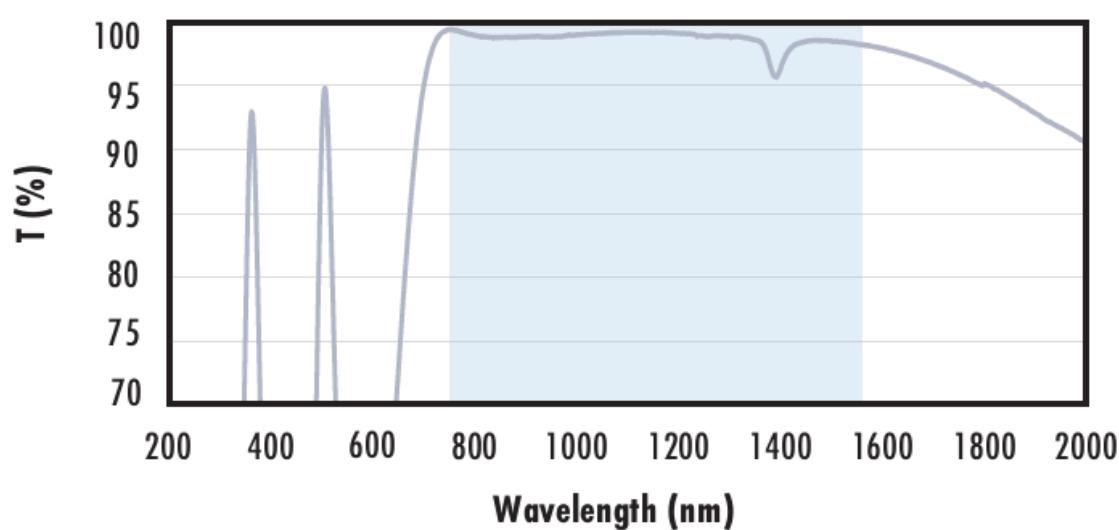
range, with the following specification:

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

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

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Fused Silica with NIR II Coating Typical Transmission



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

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 1.5\% @ 750 - 800\text{nm}$

$R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}$

$R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}$

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

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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

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