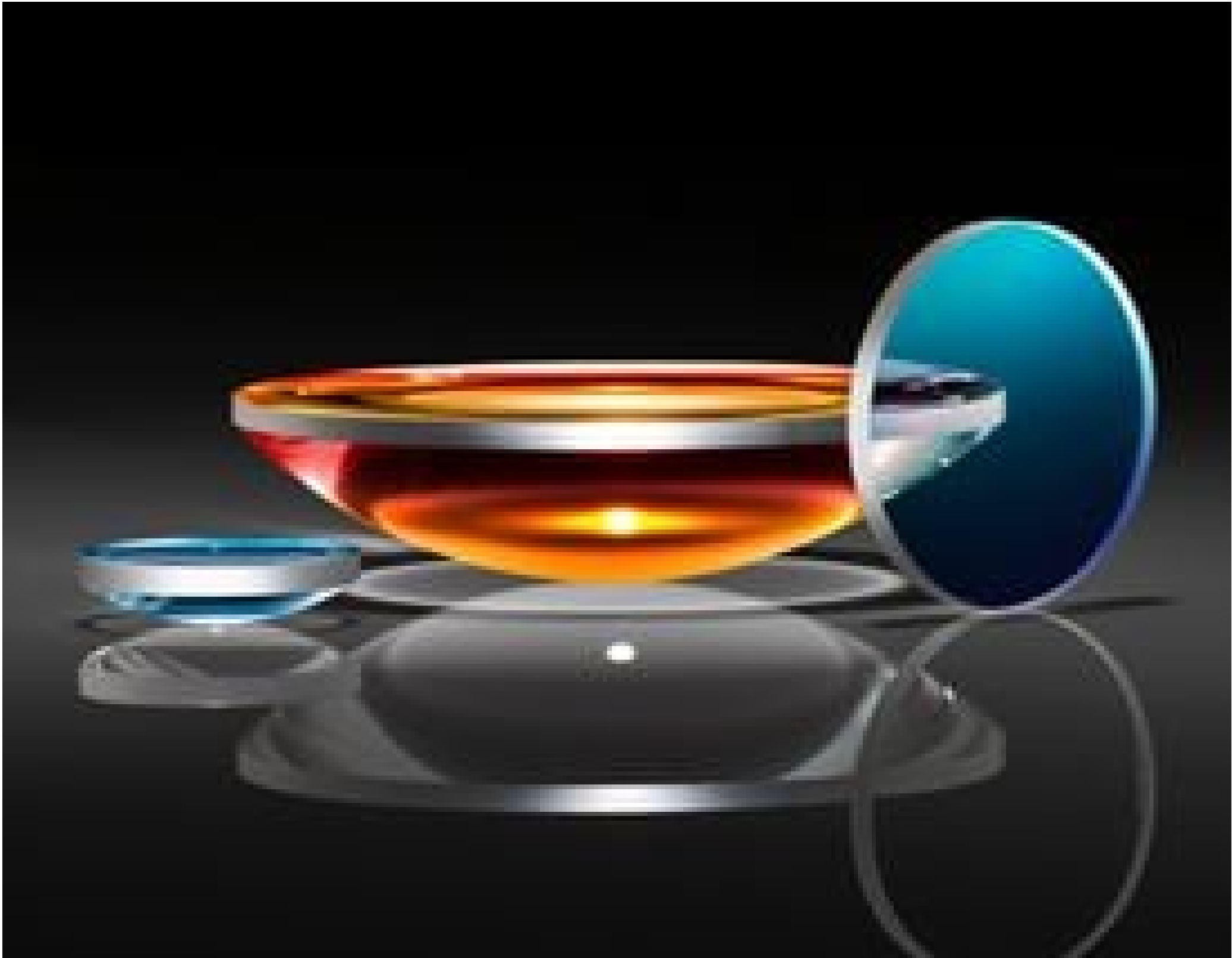
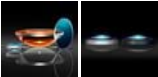


TECHSPEC[®] 75mm Dia x 100mm FL Uncoated, UV Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#70-889** **2 In Stock**

-

1

+

₹47,099

ADD TO CART

Volume Pricing	
Qty 1-5	₹47,099 each
Qty 6-25	₹37,679 each
Qty 26-49	₹35,344 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Type:

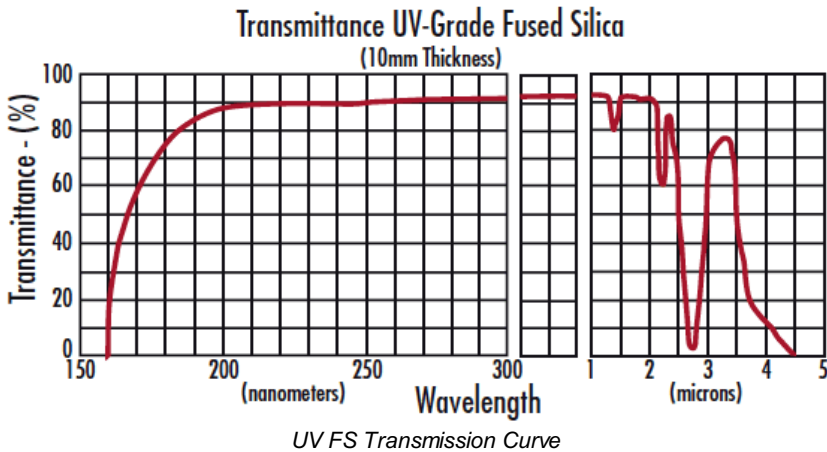
Plano-Convex Lens	
Physical & Mechanical Properties	
75.00 +0.00/-0.025	Diameter (mm):
<1	Centering (arcmin):
21.00 ±.10	Center Thickness CT (mm):
1.53	Edge Thickness ET (mm):
73.5	Clear Aperture CA (mm):
Protective as needed	Bevel:
Optical Properties	
100.00	Effective Focal Length EFL (mm):
85.61	Back Focal Length BFL (mm):
Uncoated	Coating:
Fused Silica	Substrate:
40-20	Surface Quality:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
45.85	Radius R ₁ (mm):
1.34	f/#:
0.37	Numerical Aperture NA:
200 - 2200	Wavelength Range (nm):
Regulatory Compliance	
View	Certificate of Conformance:

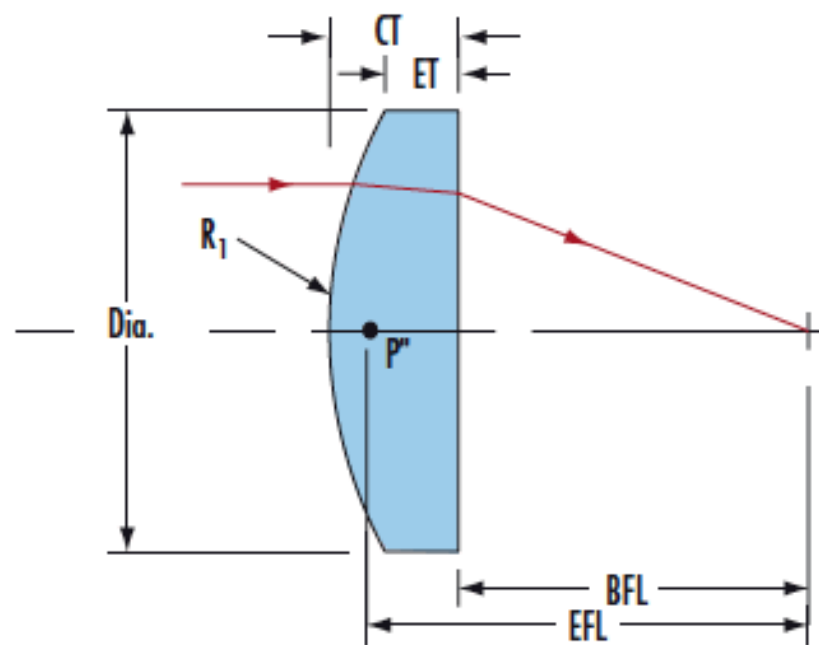
PRODUCT DETAILS

- UV-Grade Fused Silica
- Wavelength Range of 200nm to 2.2μm
- Variety of Coating Options Available
- Various Coating Options: [MgF₂](#), [UV-AR](#), [UV-VIS](#), [VIS-EXT](#), [VIS-NIR](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses Uncoated 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 Uncoated feature industry leading diameter and centration specifications, making them ideal for integration into demanding imaging and targeting applications.

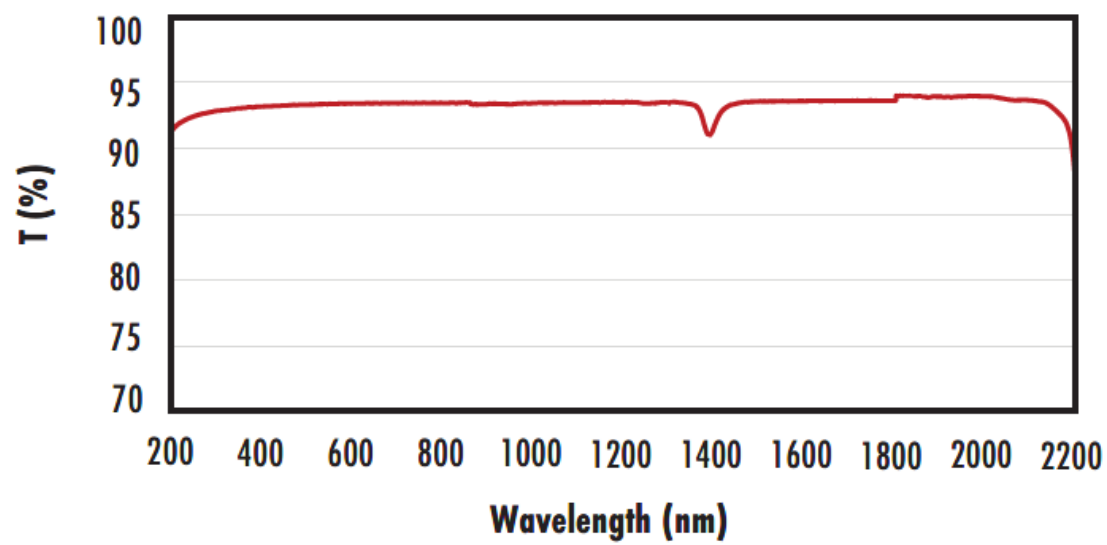
TECHNICAL INFORMATION





FUSED SILICA

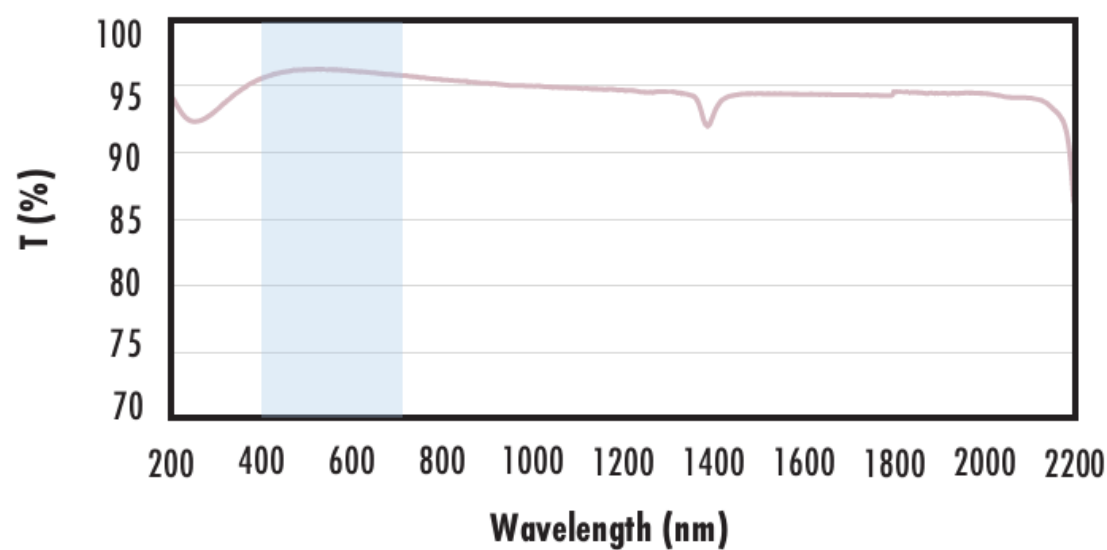
Uncoated Fused Silica Typical Transmission



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

[Click Here to Download Data](#)

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.

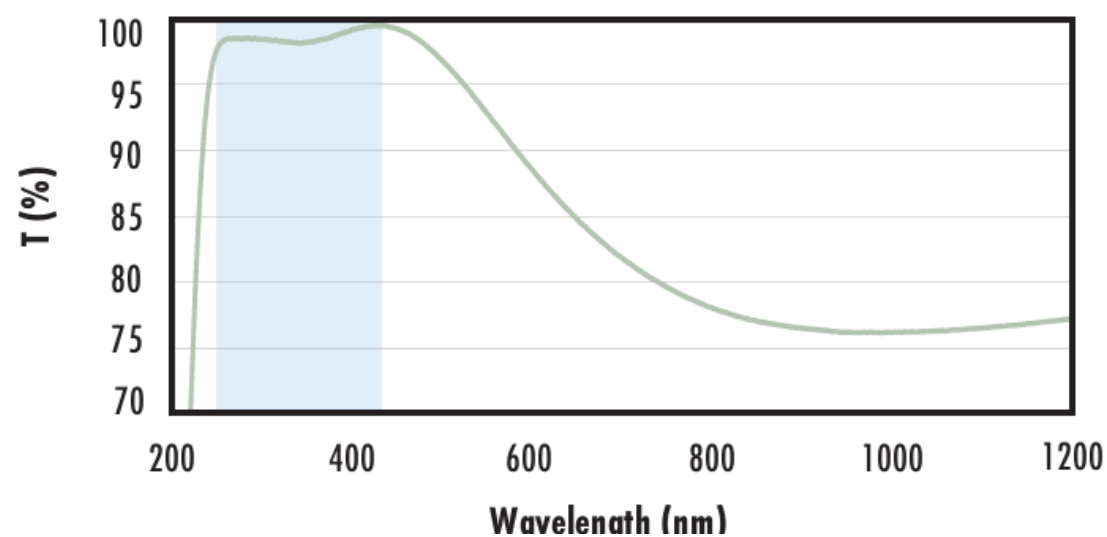
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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:

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

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

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

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

[Click Here to Download Data](#)

[Click Here to Download Data](#)

Wavelength (nm)	Transmission T (%)
300	70
350	95
400	99
450	98
500	99
600	100
700	100
800	95
900	88
1000	82
1100	78
1200	75

[Click Here to Download Data](#)

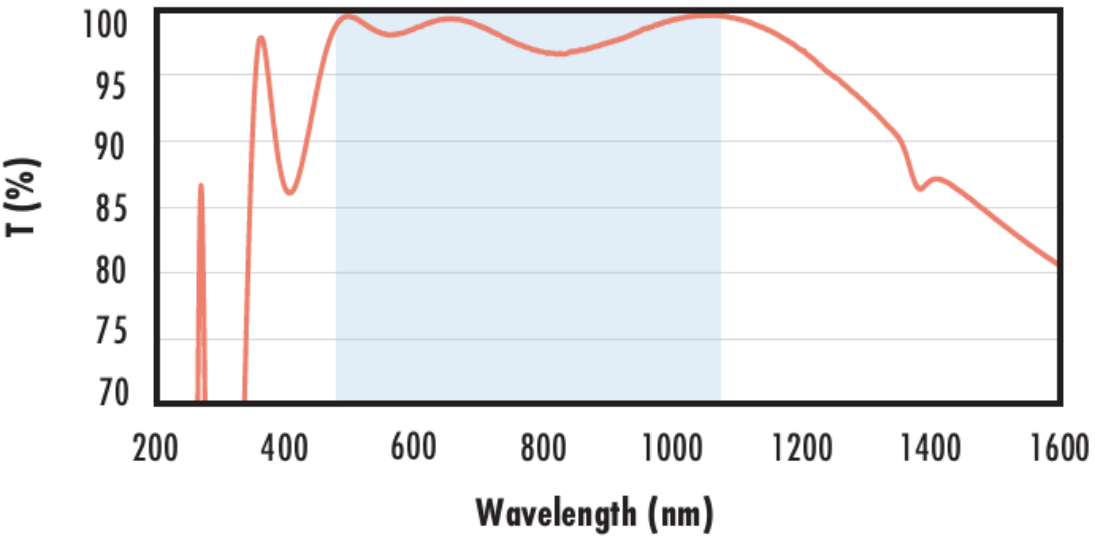
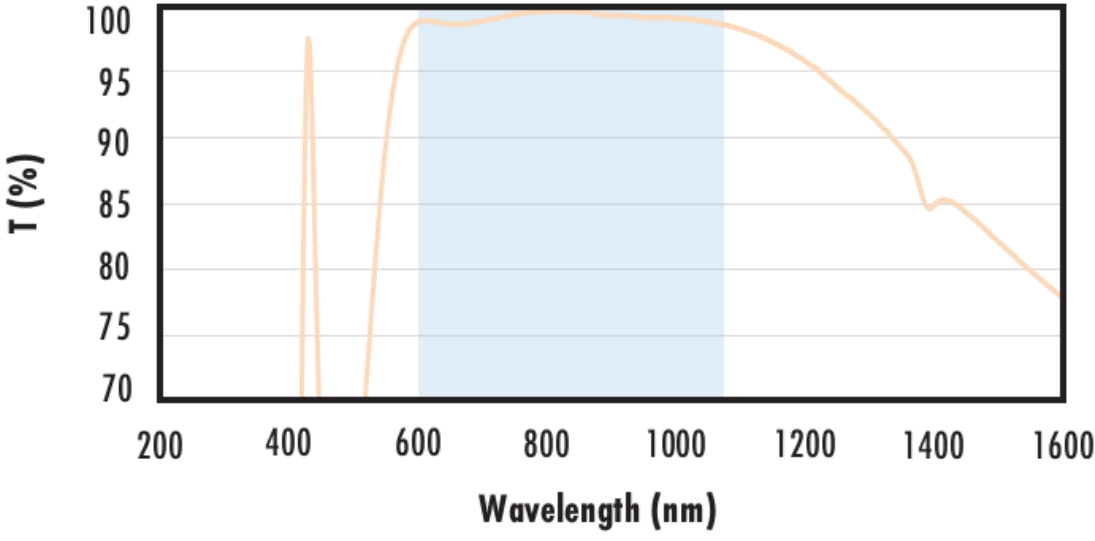
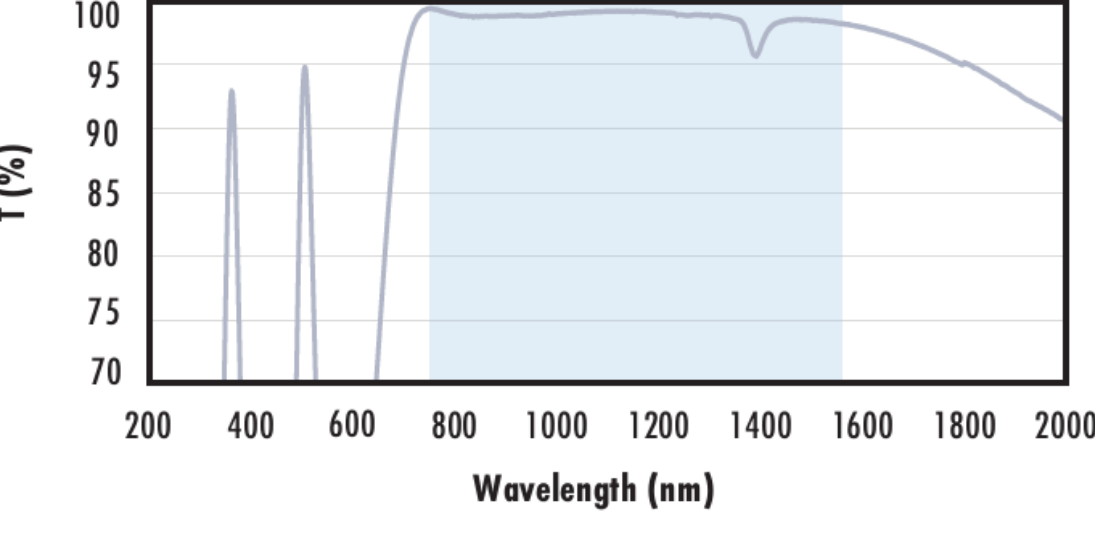
[Click Here to Download Data](#)

The graph plots Transmittance T (%) on the y-axis against Wavelength (nm) on the x-axis. The y-axis has major ticks at 70, 75, 80, 85, 90, 95, and 100. The x-axis has major ticks at 200, 400, 600, 800, 1000, and 1200. A blue shaded region highlights the wavelength range from approximately 420 nm to 680 nm, where the transmittance is near 100%. The transmittance curve starts at ~70% at 200 nm, rises to ~82% at 300 nm, then to ~100% by 400 nm. It remains near 100% until ~700 nm, then decreases to ~75% at 1200 nm.

Wavelength (nm)	Transmittance T (%)
200	~70
300	~82
400	~100
500	~100
600	~100
700	~100
800	~95
900	~88
1000	~82
1100	~78
1200	~75

[Click Here to Download Data](#)

Fused Silica with YAG-BBAR Coating

Typical Transmission 	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. Click Here to Download Data
Fused Silica with NIR I Coating Typical Transmission 	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 - 1050nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
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 - 800nm $R_{abs} \leq 1.0\%$ @ 800 - 1550nm $R_{avg} \leq 0.7\%$ @ 750 - 1550nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data

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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