

TECHSPEC[®] 75mm Dia. x 150mm FL UV-VIS Coated, UV Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#72-318** 2 In Stock

-

1

+

€690^{.00}

ADD TO CART

Volume Pricing	
Qty 1-5	€690,00 each
Qty 6-25	€555,00 each
Qty 26-49	€520,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

75.00	Diameter (mm):
<1	Centering (arcmin):
20.00 ±0.10	Center Thickness CT (mm):
8.88	Edge Thickness ET (mm):
73.5	Clear Aperture CA (mm):
Protective as needed	Bevel:

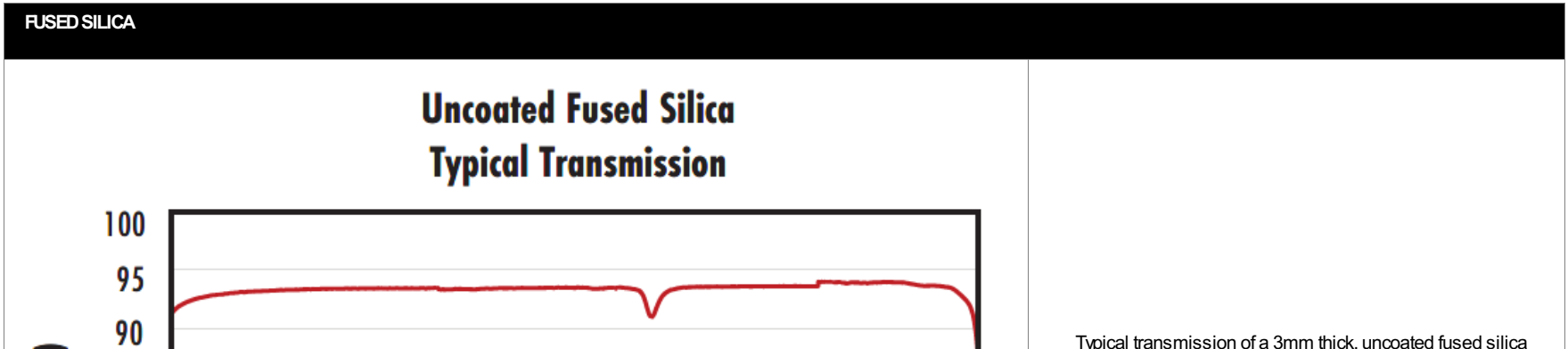
Optical Properties	
150.00 @ 587.6	Effective Focal Length EFL (mm):
136.31	Back Focal Length BFL (mm):
UV-VIS (250-700nm)	Coating:
R _{abs} ≤1.0% @ 350 - 450nm R _{avg} ≤1.5% @ 250 - 700nm	Coating Specification:
Fused Silica (Corning 7980)	Substrate: □
40-20	Surface Quality:
3λ	Power (P-V) @ 632.8nm:
λ/2	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
68.78	Radius R ₁ (mm):
2	f/#:
0.25	Numerical Aperture NA:
250 - 700	Wavelength Range (nm):
3 J/cm ² @ 355nm 10ns 5 J/cm ² @ 532nm, 10ns	Damage Threshold, Reference: □

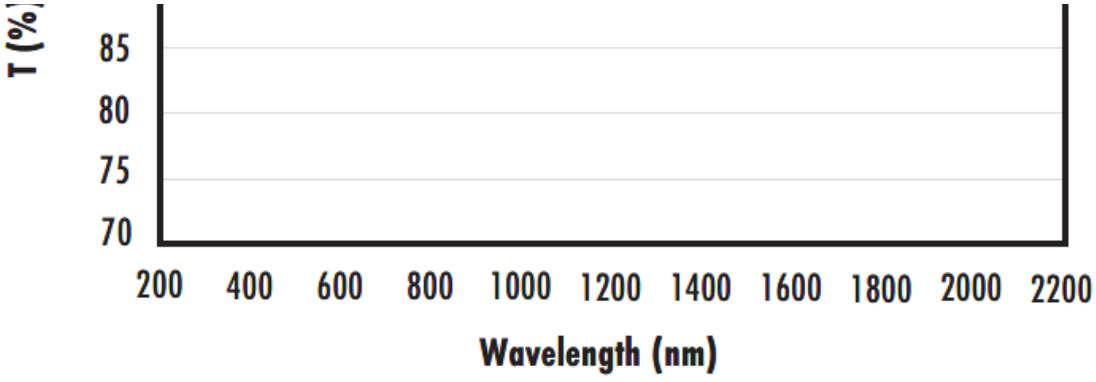
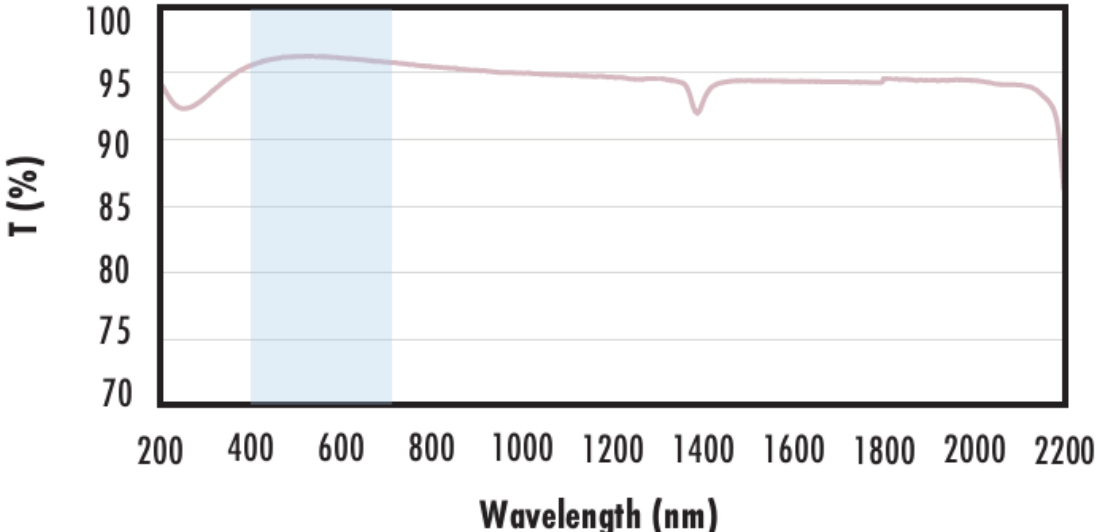
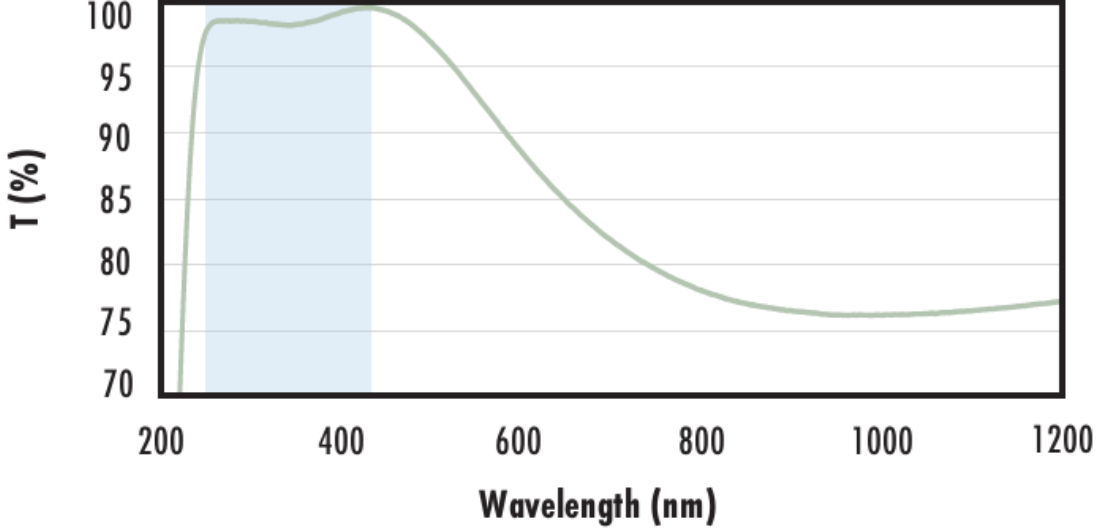
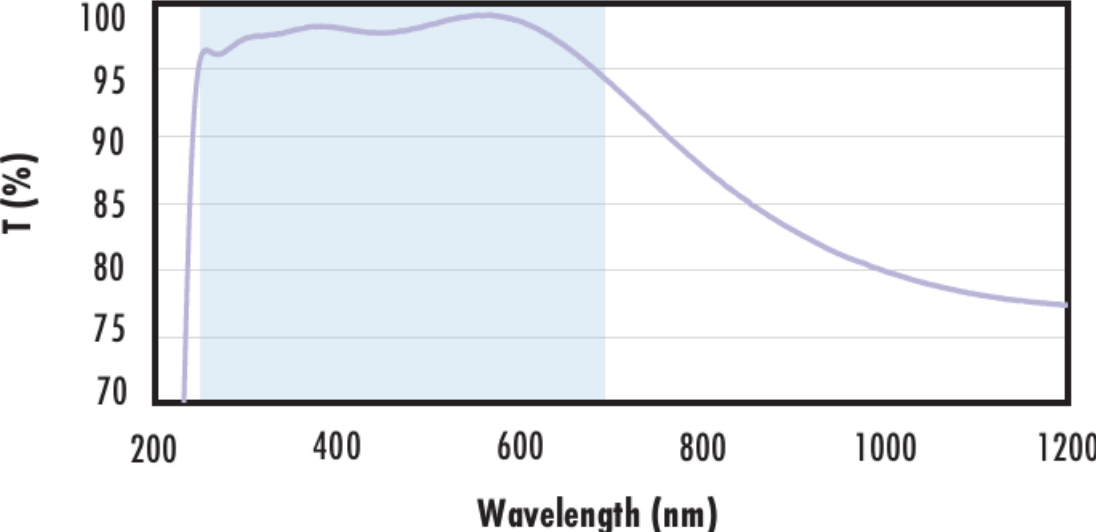
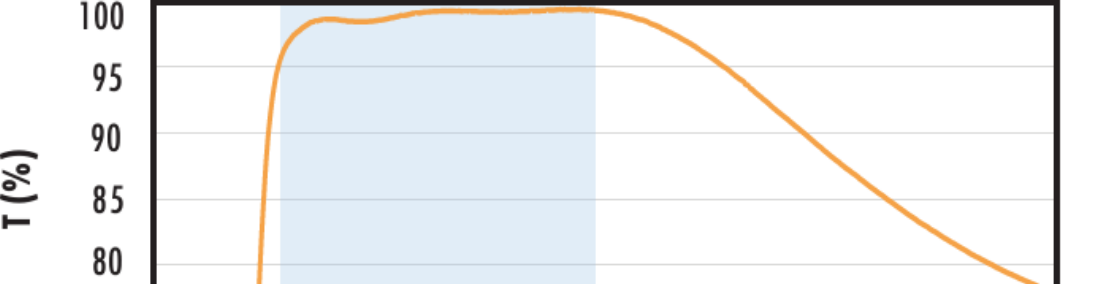
Regulatory Compliance	
View	Certificate of Conformance:

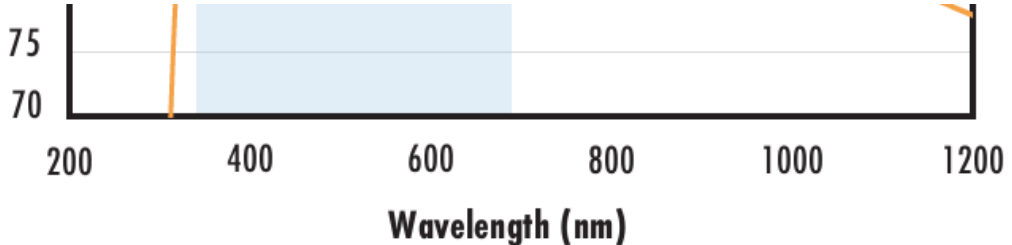
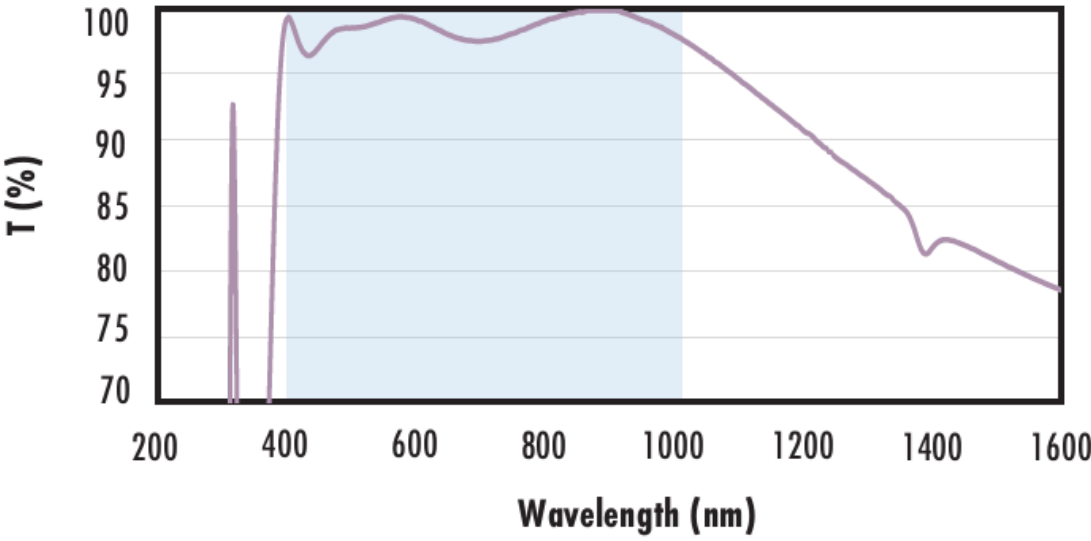
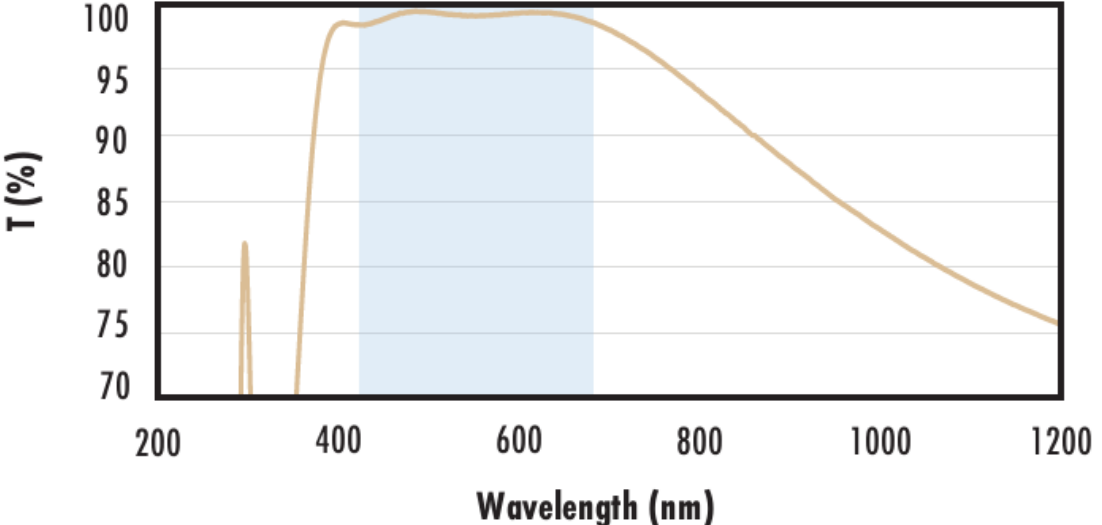
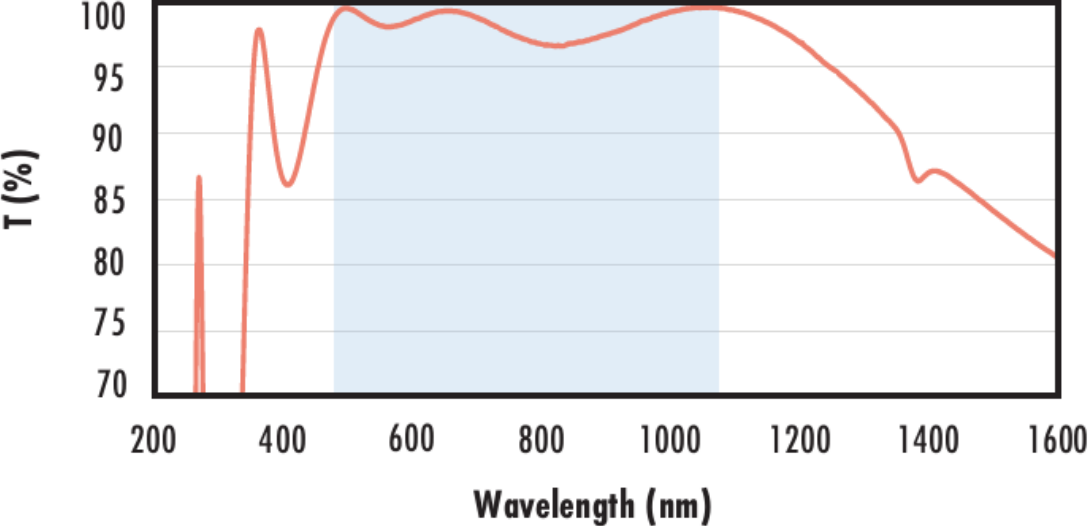
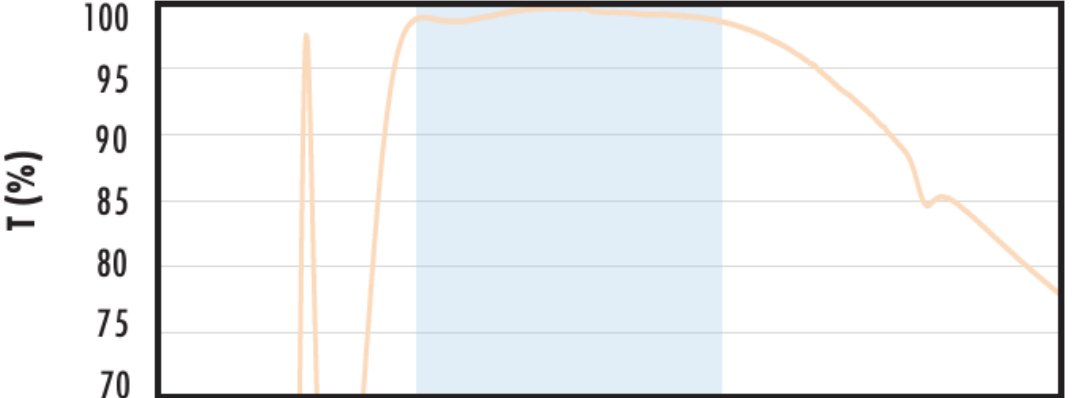
Product Details

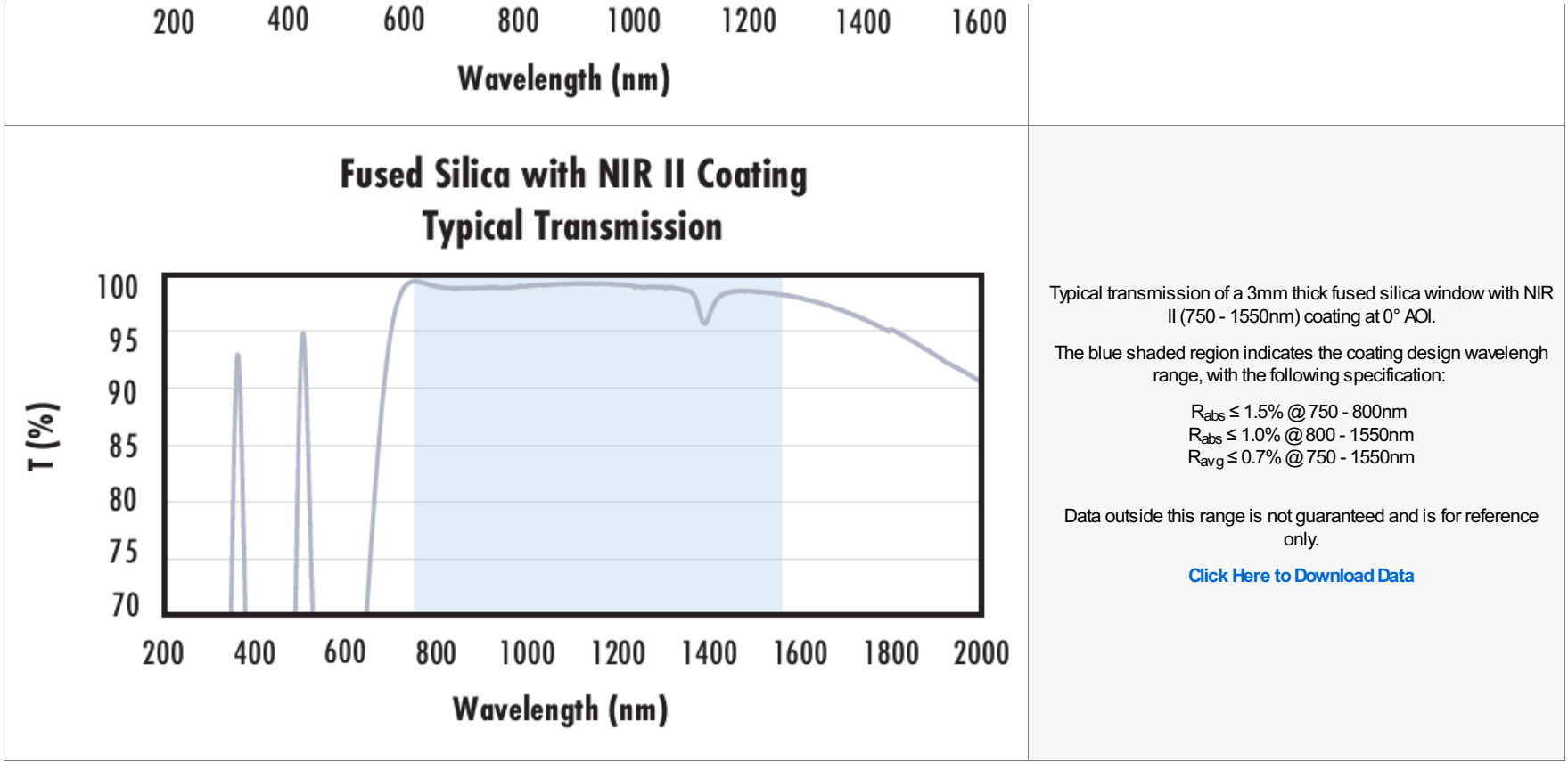
- AR Coated to Provide <1.5% Reflection per Surface for 250 - 700nm
 - Precision Fused Silica Substrate
 - Various Coating Options: [Uncoated](#), [MgF₂](#), [UV-AR](#), [VIS-EXT](#), [VIS-NIR](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)
- TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses UV-VIS 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 UV-VIS Coated feature industry leading diameter and centration specifications, making them ideal for integration into demanding imaging and targeting applications. These lenses are UV-VIS coated to increase their coating performance in the ultraviolet and visible region.

Technical Information



 The graph shows a coordinate system with the y-axis labeled 'T (%)' ranging from 70 to 85 and the x-axis labeled 'Wavelength (nm)' ranging from 200 to 2200. No data is plotted.	Typical transmission of a 3mm thick fused silica window across the UV - NIR spectra. Click Here to Download Data
Fused Silica with MgF₂ Coating Typical Transmission  The graph shows the typical transmission of a 3mm thick fused silica window with MgF₂ (400-700nm) coating at 0° AOI. The y-axis is 'T (%)' from 70 to 100, and the x-axis is 'Wavelength (nm)' from 200 to 2200. A red curve shows transmission starting at ~93% at 200nm, rising to ~97% at 400nm, remaining high until 1400nm with a small dip, and then dropping to ~85% at 2200nm. A blue shaded region highlights the design range from 400nm to 700nm.	Typical transmission of a 3mm thick fused silica window with MgF₂ (400-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 1.75\% \text{ @ } 400 - 700\text{nm (N-BK7)}$ 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  The graph shows the typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI. The y-axis is 'T (%)' from 70 to 100, and the x-axis is 'Wavelength (nm)' from 200 to 1200. A green curve shows transmission rising sharply from 200nm to ~99% at 250nm, staying near 100% until 425nm, then gradually decreasing to ~76% at 1200nm. A blue shaded region highlights the design range from 250nm to 425nm.	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: $R_{abs} \leq 1.0\% \text{ @ } 250 - 425\text{nm}$ $R_{avg} \leq 0.75\% \text{ @ } 250 - 425\text{nm}$ $R_{avg} \leq 0.5\% \text{ @ } 370 - 420\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with UV-VIS Coating Typical Transmission  The graph shows the typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI. The y-axis is 'T (%)' from 70 to 100, and the x-axis is 'Wavelength (nm)' from 200 to 1200. A purple curve shows transmission rising from 200nm to ~97% at 250nm, peaking at ~100% around 550nm, and then decreasing to ~77% at 1200nm. A blue shaded region highlights the design range from 250nm to 700nm.	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: $R_{abs} \leq 1.0\% \text{ @ } 350 - 450\text{nm}$ $R_{avg} \leq 1.5\% \text{ @ } 250 - 700\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS-EXT Coating Typical Transmission  The graph shows the typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI. The y-axis is 'T (%)' from 80 to 100, and the x-axis is 'Wavelength (nm)' from 200 to 1200. An orange curve shows transmission rising from 350nm to ~100% at 350nm, remaining high until 700nm, and then decreasing to ~80% at 1200nm. A blue shaded region highlights the design range from 350nm to 700nm.	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: $R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}$ Data outside this range is not guaranteed and is for reference only.

	Click Here to Download Data
Fused Silica with VIS-NIR Coating Typical Transmission 	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\% @ 880\text{nm}$$R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$$R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS 0° Coating Typical Transmission 	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: $R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$ Data outside this range is not guaranteed and is for reference only. 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\% @ 532\text{nm}$$R_{abs} \leq 0.25\% @ 1064\text{nm}$$R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}$ 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: $R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}$ 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

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).