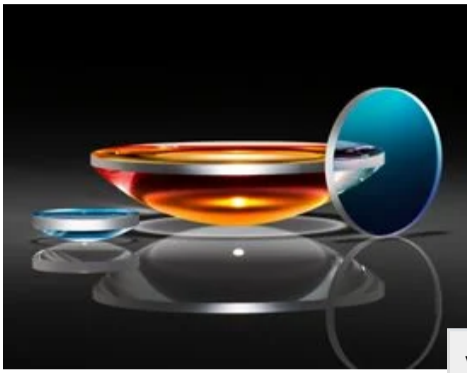


[« See all 75 Products in Family](#)
[All Products](#) / [Optics](#) / [Optical Lenses](#) / [Plano-Convex \(PCX\) Lenses](#)
[/ Fused Silica Plano-Convex \(PCX\) Lenses](#)
[/ UV Fused Silica Plano-Convex \(PCX\) Lenses - VIS-NIR Coated](#)
TECHSPEC®

18mm Dia x 27mm FL VIS-NIR Coated, UV Plano-Convex Lens


 Stock #36-734 **5 In Stock**

 - 1 + **£136^{.80}**
ADD TO CART

UV Fused Silica Plano-Convex (PCX) Lenses



| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | £136.80 each |
| Qty 6-25 | £109.60 each |
| Qty 26-49 | £102.40 each |
| Need More? | Request Quote |

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs Zemax:zar
- Zemax:zmx eDrawing:eprt
- Code V:seq EO Spec Sheet
- [Download All](#)

General
Type: Plano-Convex Lens

Physical & Mechanical Properties

| | | | |
|----------------------------------|----------------------|--------------------------------|----------------------|
| Diameter (mm): | 18.00 +0.0/-0.025 | Centering (arcmin): | <1 |
| Center Thickness CT (mm): | 5.50 ±0.10 | Edge Thickness ET (mm): | 1.62 |
| Clear Aperture CA (mm): | 17 | Bevel: | Protective as needed |

Optical Properties

| | | | |
|---|---------------------------------------|--------------------------------------|---|
| Effective Focal Length EFL (mm): | 27.00 @ 587.6nm | Back Focal Length BFL (mm): | 23.23 |
| Coating: | VIS-NIR (400-1000nm) | Coating Specification: | R _{abs} ≤ 0.25% @ 880nm R _{avg} ≤ 1.25% @ 400 - 870nm R _{avg} ≤ 1.25% @ 890 - 1000nm |
| Substrate: ⓘ | Fused Silica (Corning 7980) | Surface Quality: | 40-20 |
| Power (P-V) @ 632.8nm: | 1.5λ | Irregularity (P-V) @ 632.8nm: | λ/4 |
| Focal Length Tolerance (%): | ±1 | Radius R₁ (mm): | 12.38 |

| | |
|--|--|
| f/#: 1.5 | Numerical Aperture NA: 0.33 |
| Wavelength Range (nm): 400 - 1000 | Damage Threshold, Reference: ① 5 J/cm ² @ 532nm, 10ns |

Regulatory Compliance

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

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](#).

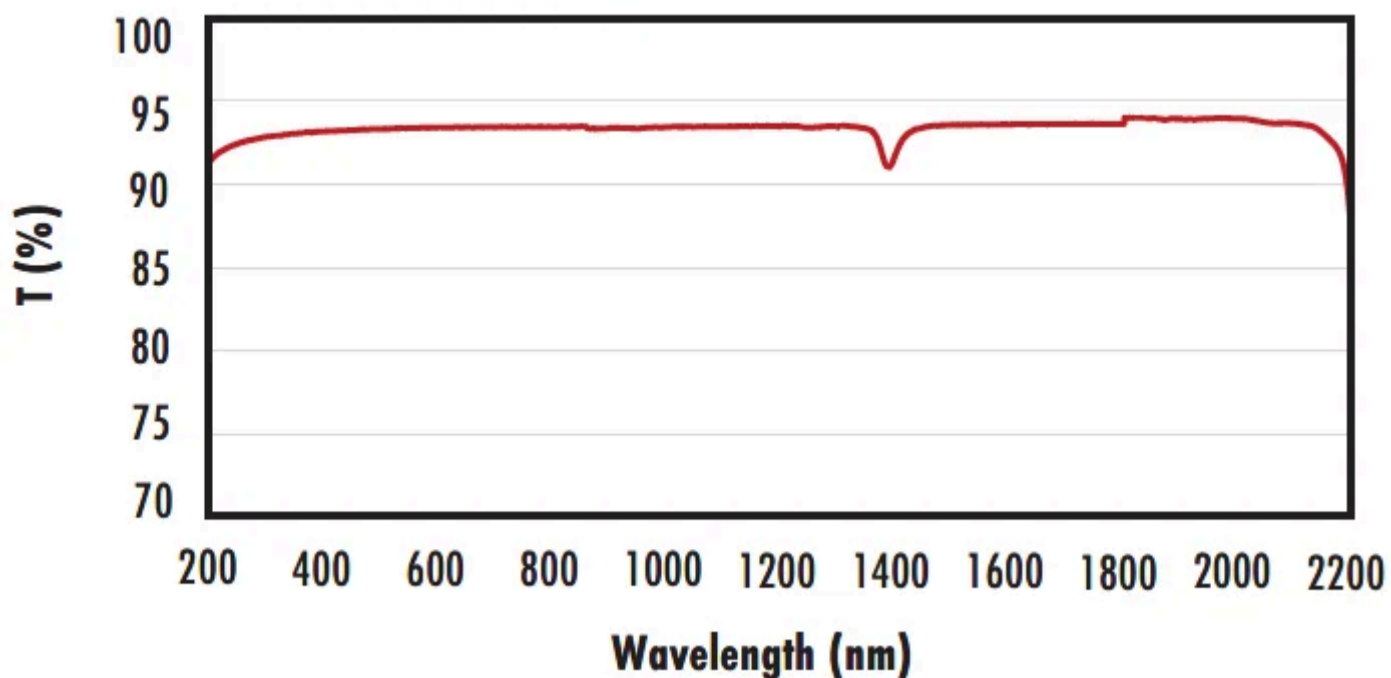
Product Details

- AR Coated to Provide <1.25% Reflection per Surface for 400 - 870nm and for 890 - 1000nm
- Precision Fused Silica Substrate
- Various Coating Options: **Uncoated**, **MgF₂**, **UV-AR**, **UV-VIS**, **VIS-EXT**, **VIS 0°**, **YAG-BBAR**, **NIR I**, and **NIR II**

TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses VIS-NIR 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 VIS-NIR Coated feature industry leading diameter and centration specifications, making them ideal for integration into demanding imaging and targeting applications. These lenses are VIS-NIR coated to increase their coating performance in the visible and near infrared region.

Technical Information

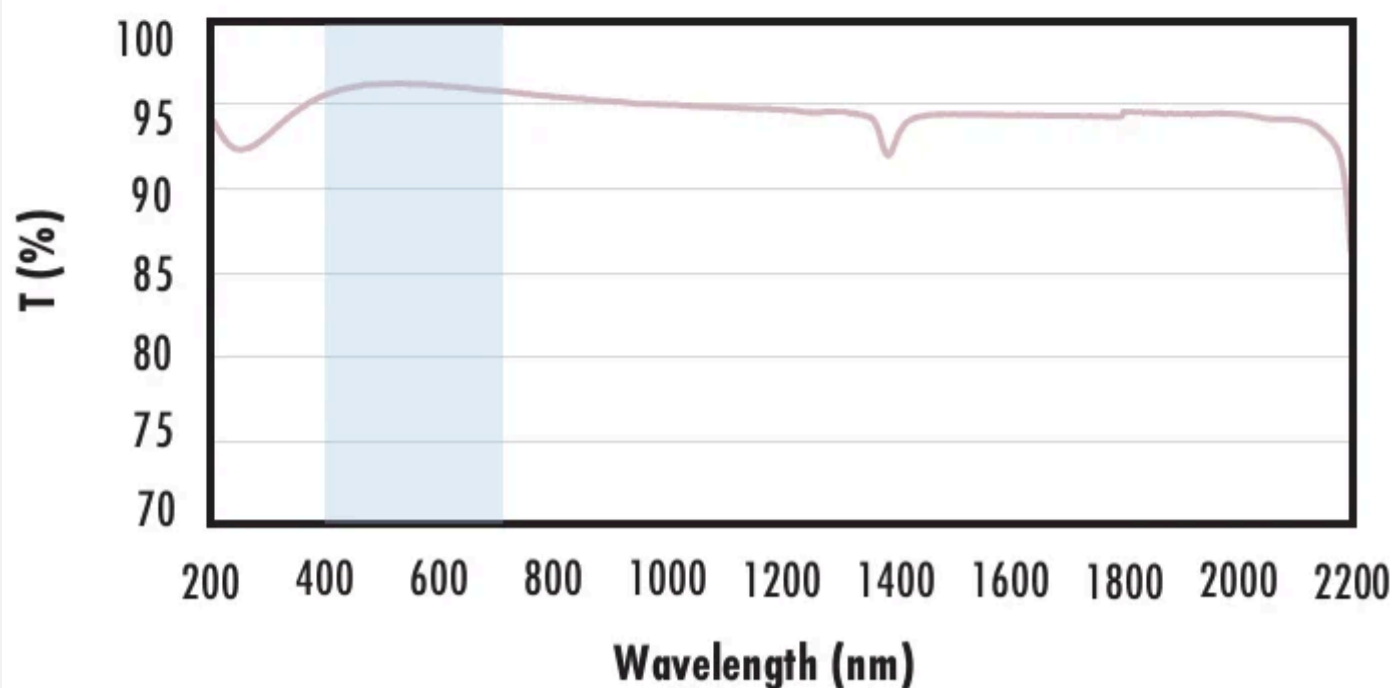
Uncoated Fused Silica Typical Transmission



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

[Click Here to Download Data](#)

Fused Silica with MgF₂ Coating Typical Transmission



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

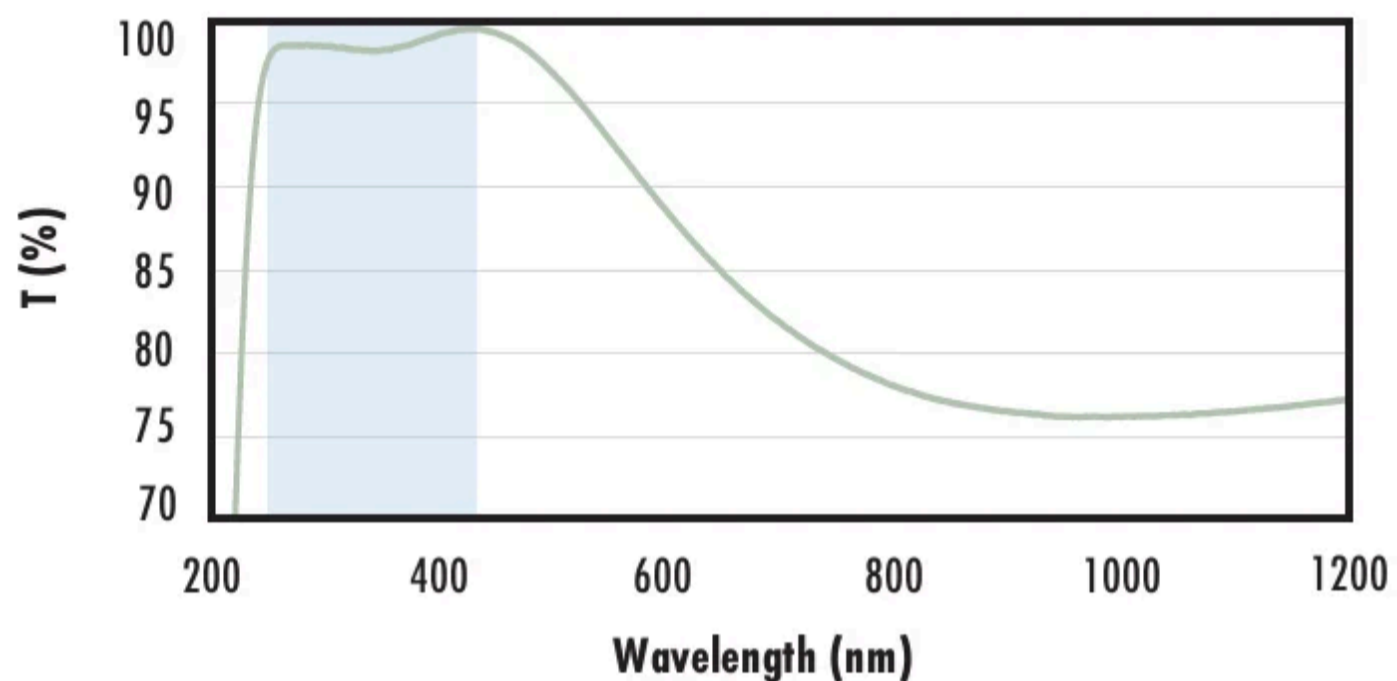
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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



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:

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

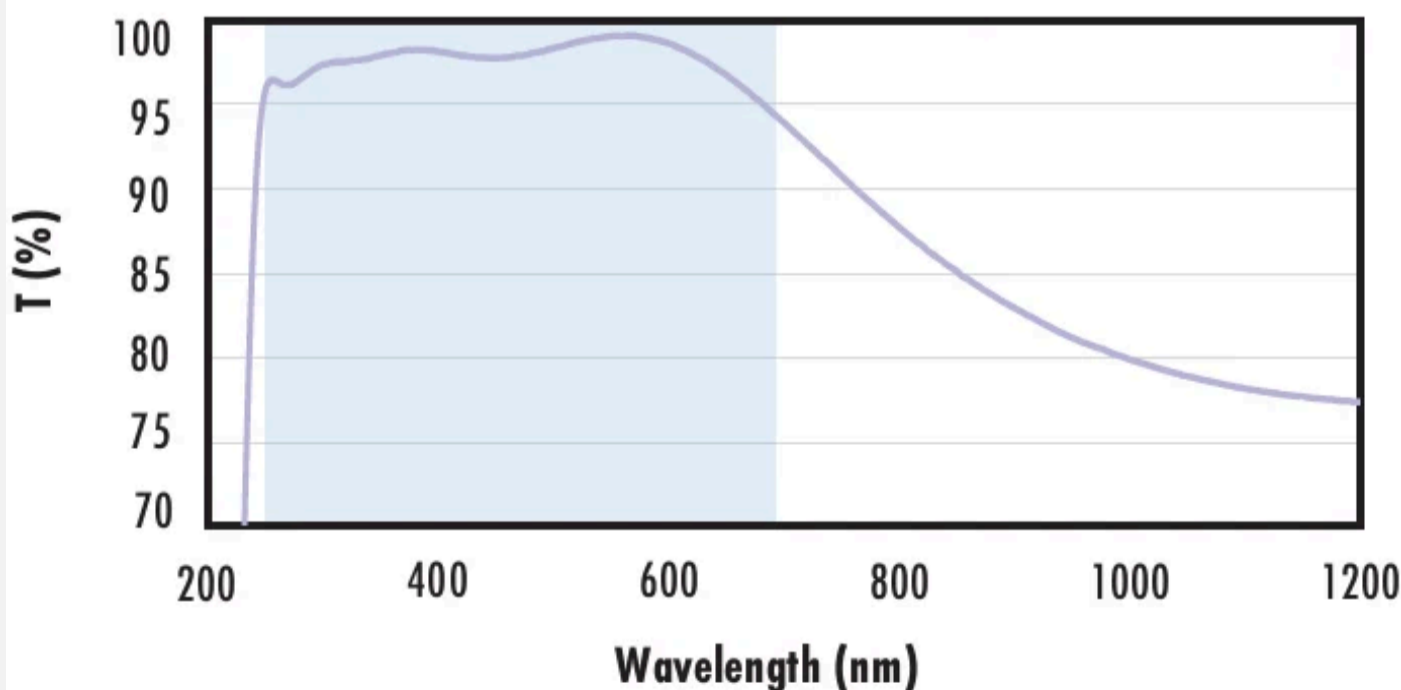
$$R_{avg} \leq 0.75\% \text{ @ } 250 - 425\text{nm}$$

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

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



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:

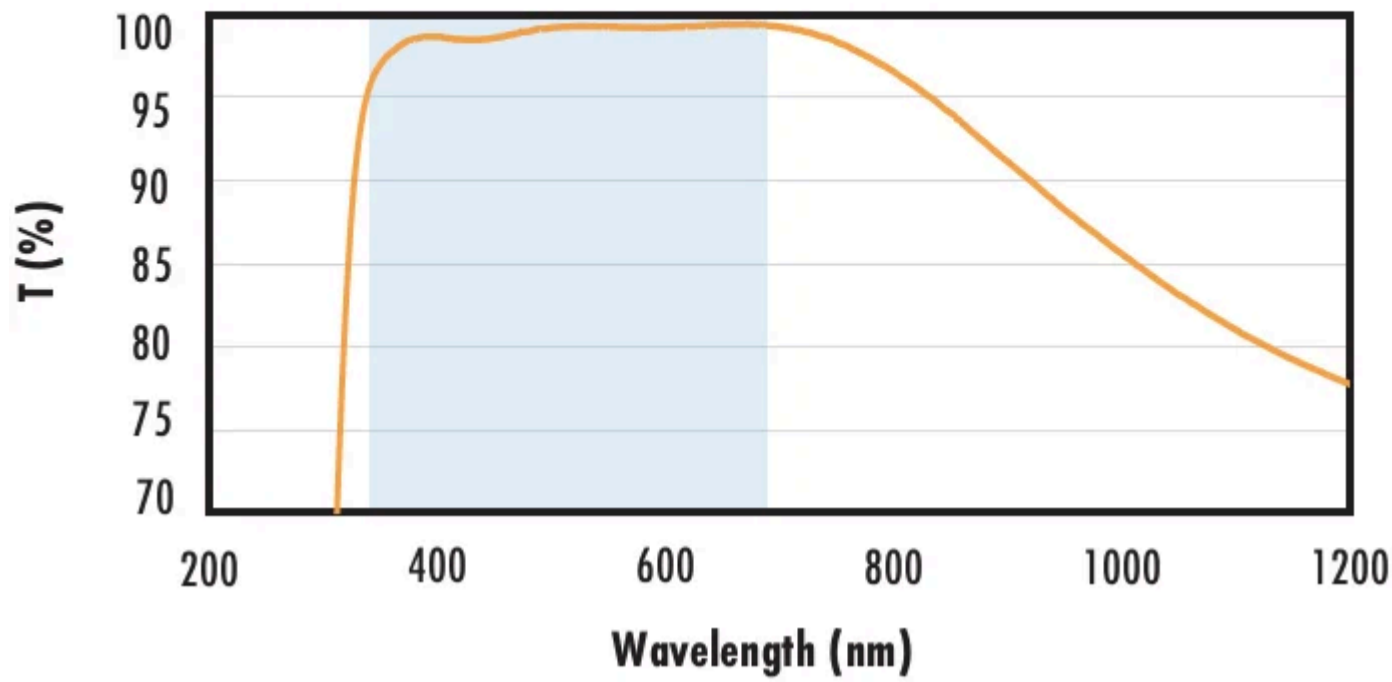
$$R_{abs} \leq 1.0\% \text{ @ } 350 - 450\text{nm}$$

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

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



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

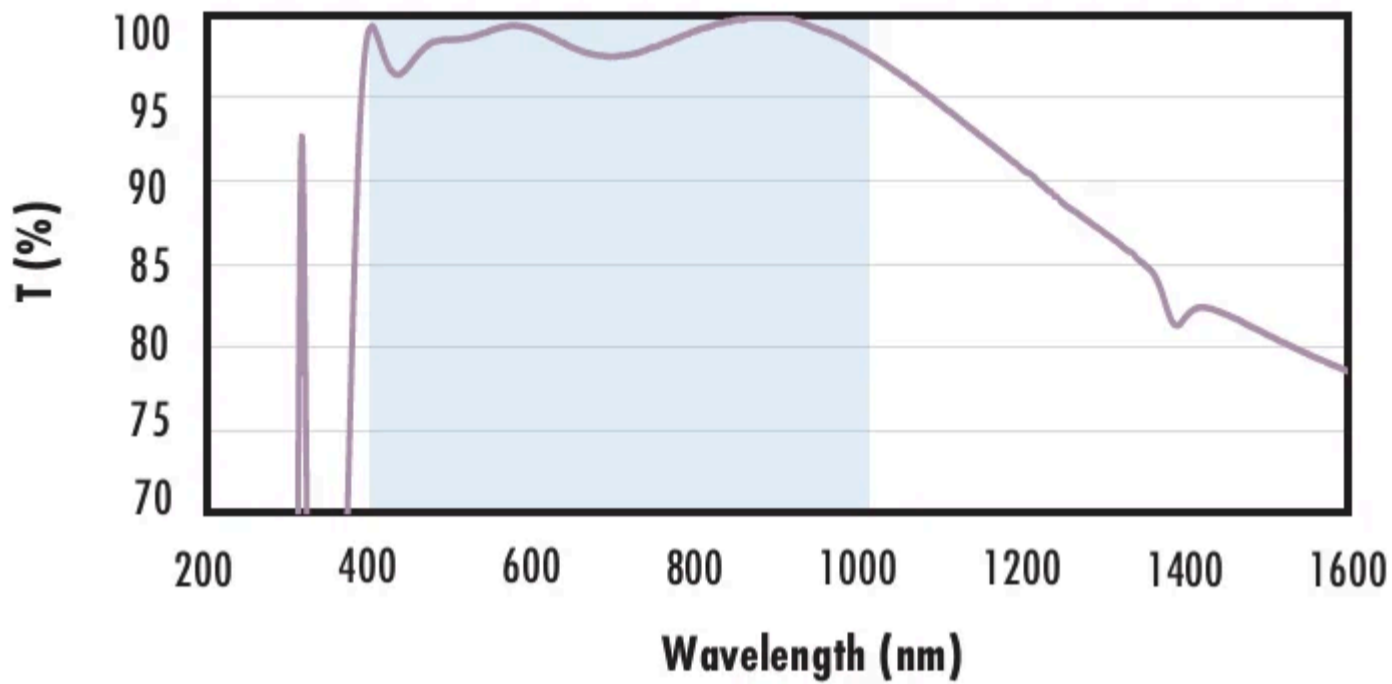
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[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:

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

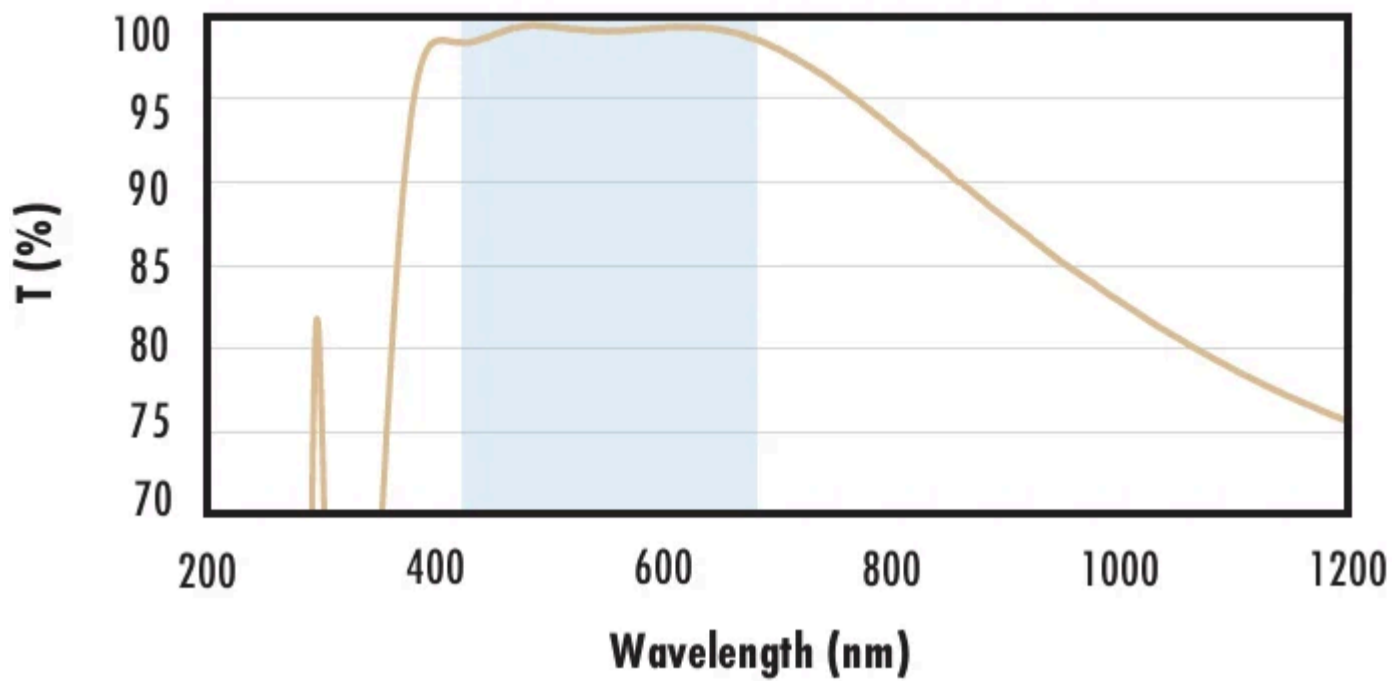
$$R_{avg} \leq 1.25\% @ 400 - 870nm$$

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

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

[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.

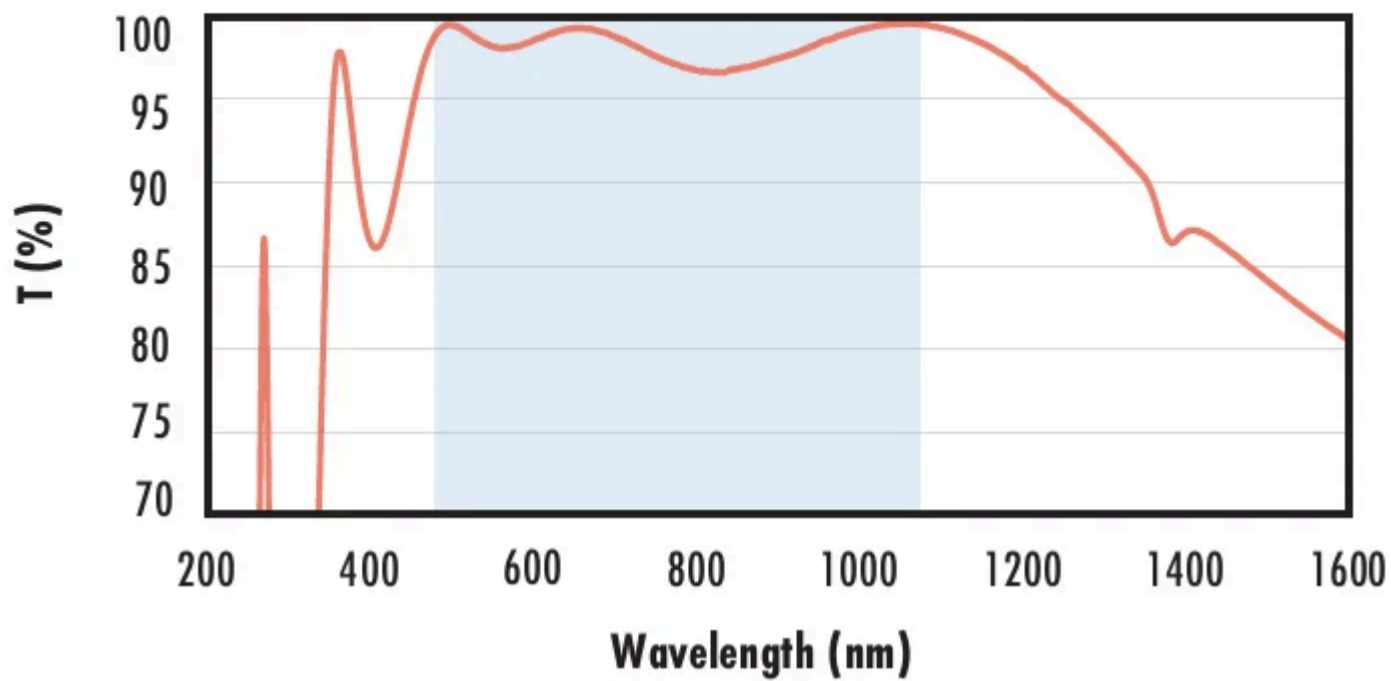
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

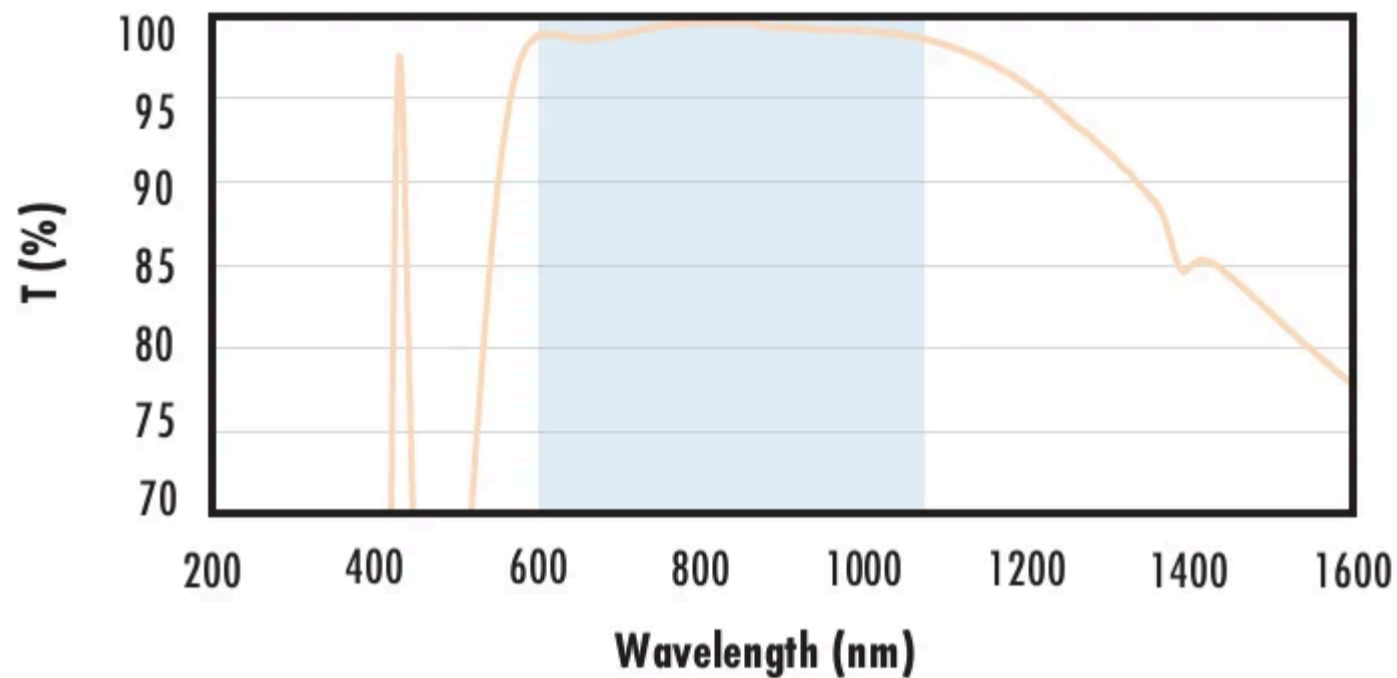
The blue shaded region indicates the coating design wavelength range, with the following specification:

- $R_{abs} \leq 0.25\%$ @ 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.

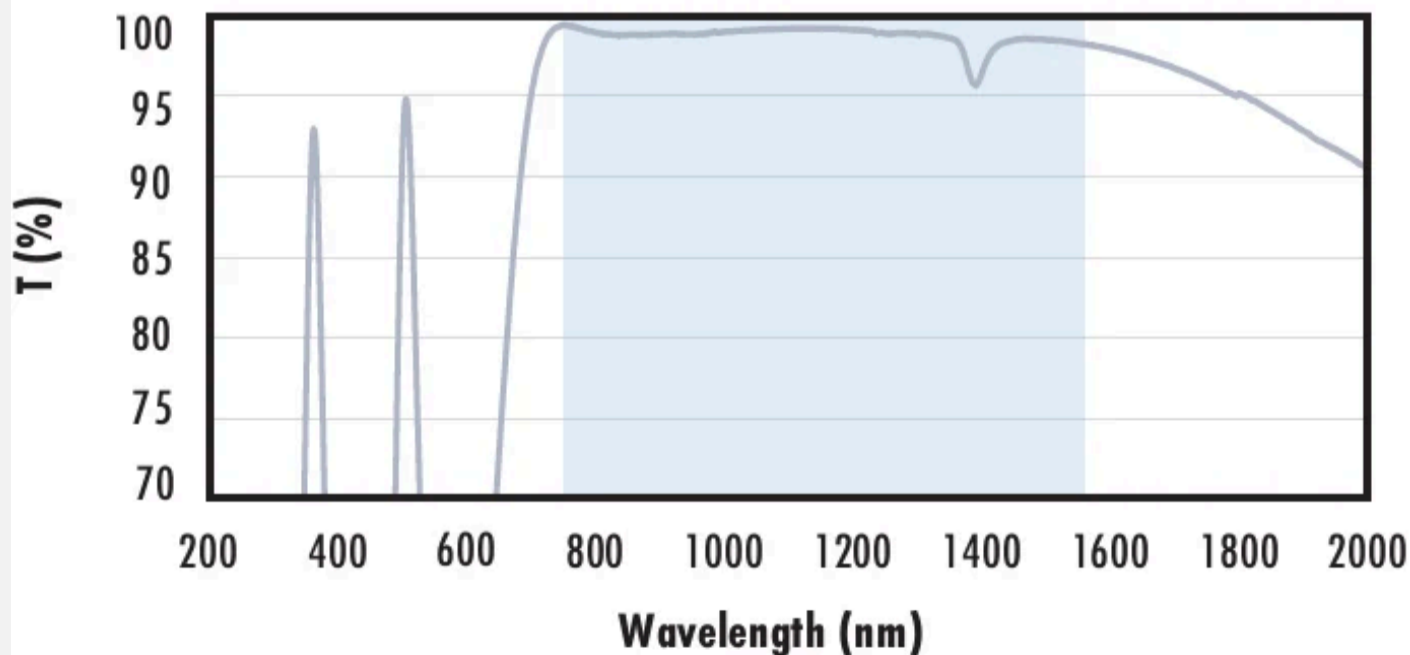
The blue shaded region indicates the coating design wavelength range, with the following specification:

- $R_{avg} \leq 0.5\%$ @ 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.

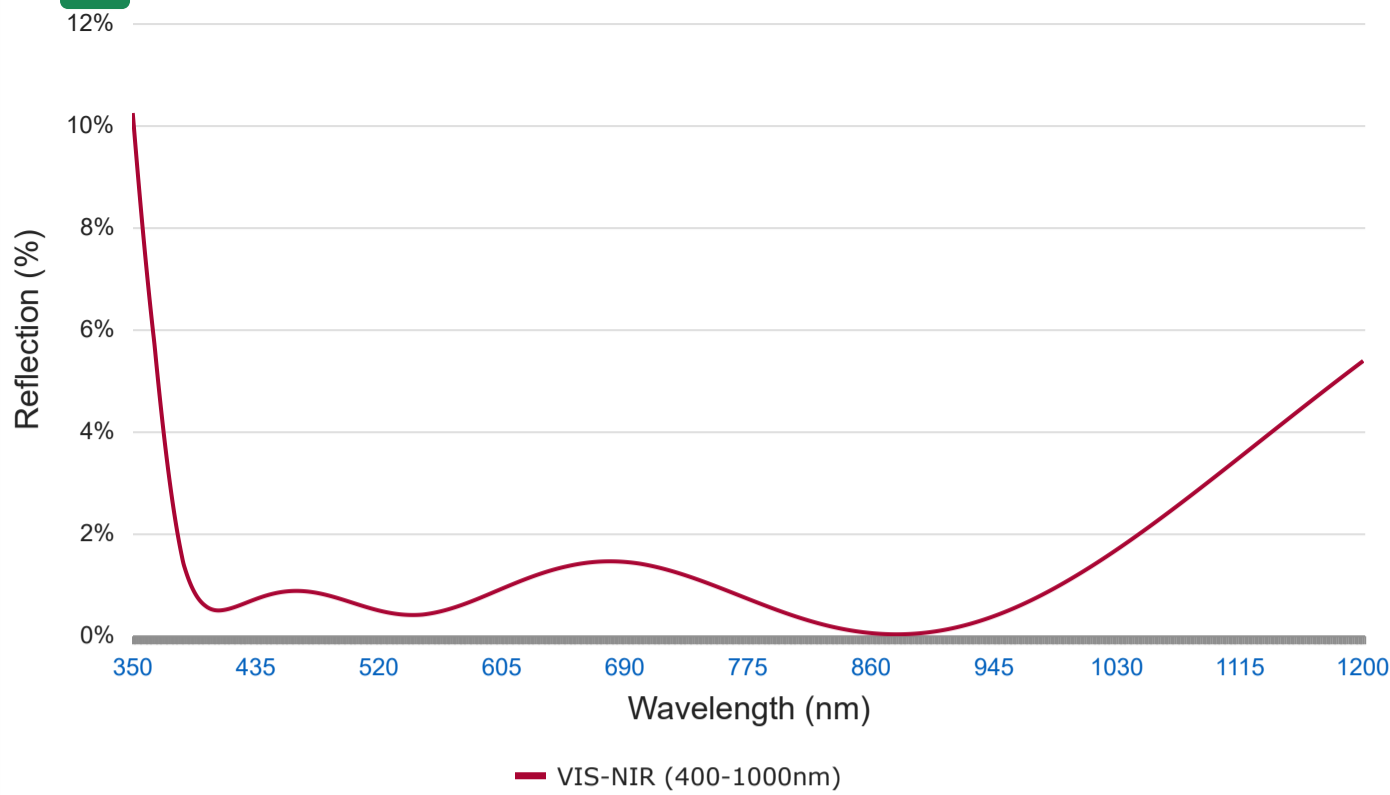
The blue shaded region indicates the coating design wavelength range, with the following specification:

- $R_{abs} \leq 1.5\%$ @ 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](#)

Coating Curves



SHIFT + SELECT an area on CURVE to zoom

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

Related Products



C, S, and T-Mount Circular Optic Mounts



Optic Component Mounts



Basic and Plus Optical Component Cleaning Kits



UV Fused Silica Aspheric Lenses

Frequently Purchased Together



#45-700 - 9.0mm Dia. x -13.5 FL, Uncoated, UV Plano-Concave Lens
£100.80

Qty



#49-522-INK - 9.0mm Diameter x -12 FL, NIR I, Inked, Plano-Concave Lens
£45.60

Qty



#36-735 - 18mm Dia x 36mm FL VIS-NIR Coated, UV Plano-Convex Lens
£136.80

Qty

Compatible Mounts

| | Title | Type | Compare | Stock Number | Price | Buy |
|--|-------|------|---------|--------------|-------|-----|
|--|-------|------|---------|--------------|-------|-----|

MORE+



18.0mm Optic Dia., Optic Mount

Fixed





#64-558

£26.20
Request Quote

CONTACT US

1



| | Title | Type | Compare | Stock Number | Price | Buy |
|---|---|-------|---------|--------------|--|--|
| MORE+  | 18mm Inner Single Optic Mount | Fixed | | #38-753 | £32.80 Request Quote | 5 In Stock <input type="text" value="1"/>  |
| MORE+  | 18mm Diameter, C-Mount Thin Optic Mount | Fixed | | #54-617 | £47.60 Request Quote | 2 In Stock <input type="text" value="1"/>  |

Check out our full selection of mounts [here](#).