TECHSPEC®

25.4 x 25.4mm x 50mm FL, Uncoated Laser Grade PCX Cylinder Lens

TECHSPEC Beam Shaping Fused Silica Cylinder Lenses

Stock #36-090 20+ In Stock

- 1 +

£135.00

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Volume Pricing	
Qty 1-5	£135.00 each
Qty 6-25	£122.00 each
Qty 26-49	£117.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

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Code V:seq EO Spec Sheet

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General

Type:	Cylinder Lens, Plano-Convex

Physical & Mechanical Properties

Bevel:	Protective as needed	**Center Thickness CT (mm):**	5.00
Center Thickness Tolerance (mm):	±0.1	**Clear Aperture CA (mm):**	22.86 x 22.86
Dimensional Tolerance (mm):	+0.0/-0.025	**Dimensions (mm):**	25.4 x 25.4
Edge Thickness ET (mm):	1.16	**Axial Twist (arcmin):**	<3

Optical Properties

Effective Focal Length EFL (mm):	50.00	**Substrate:** ⓘ	Fused Silica (Corning 7980)
f/#:	2.00	**Numerical Aperture NA:**	0.17
Coating:	Uncoated	**Wavelength Range (nm):**	200 - 2200
Back Focal Length BFL (mm):	46.58	**Radius R_1 (mm):**	22.93

Surface Quality:	20-10	**Power (P-V) @ 632.8nm:**	1.5λ
Irregularity (P-V) @ 632.8nm:	λ/4	**Plano Axis Wedge (arcmin):**	<3
Power Axis Wedge (arcmin):	<4.5		

Regulatory Compliance

RoHS 2015:	**Compliant**	**Reach 223:**	**Compliant**
Certificate of Conformance:	**View**		

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

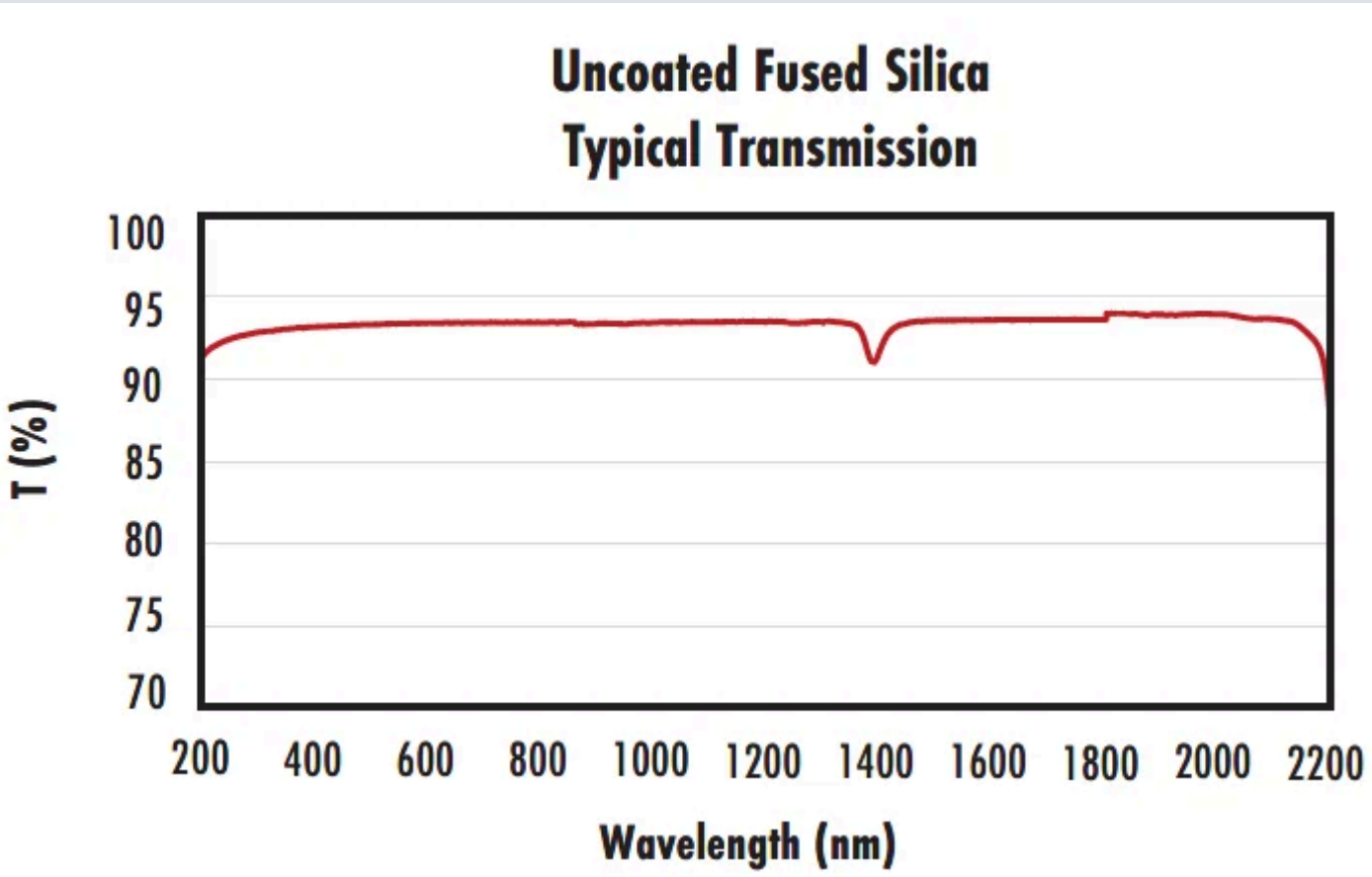
Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**

Product Details

- Offers Superior Performance from UV to IR
- Fused Silica Substrate
- Laser Optic Surface Quality

TECHSPEC® Laser Grade Broadband Cylinder Lenses feature precision specifications for the most demanding applications. These lenses are constructed of premium grade fused silica optical glass and are tailored for laser applications with a surface quality of 20-10. Our TECHSPEC Laser Grade Broadband Cylinder Lenses feature tight wedge tolerances, typically less than 3 arcmin in all dimensions. Integration of these lenses is facilitated by square form factors allowing convenient mounting options.

Technical Information



Typical transmission of an uncoated fused silica winc across the UV - NIR spectra.

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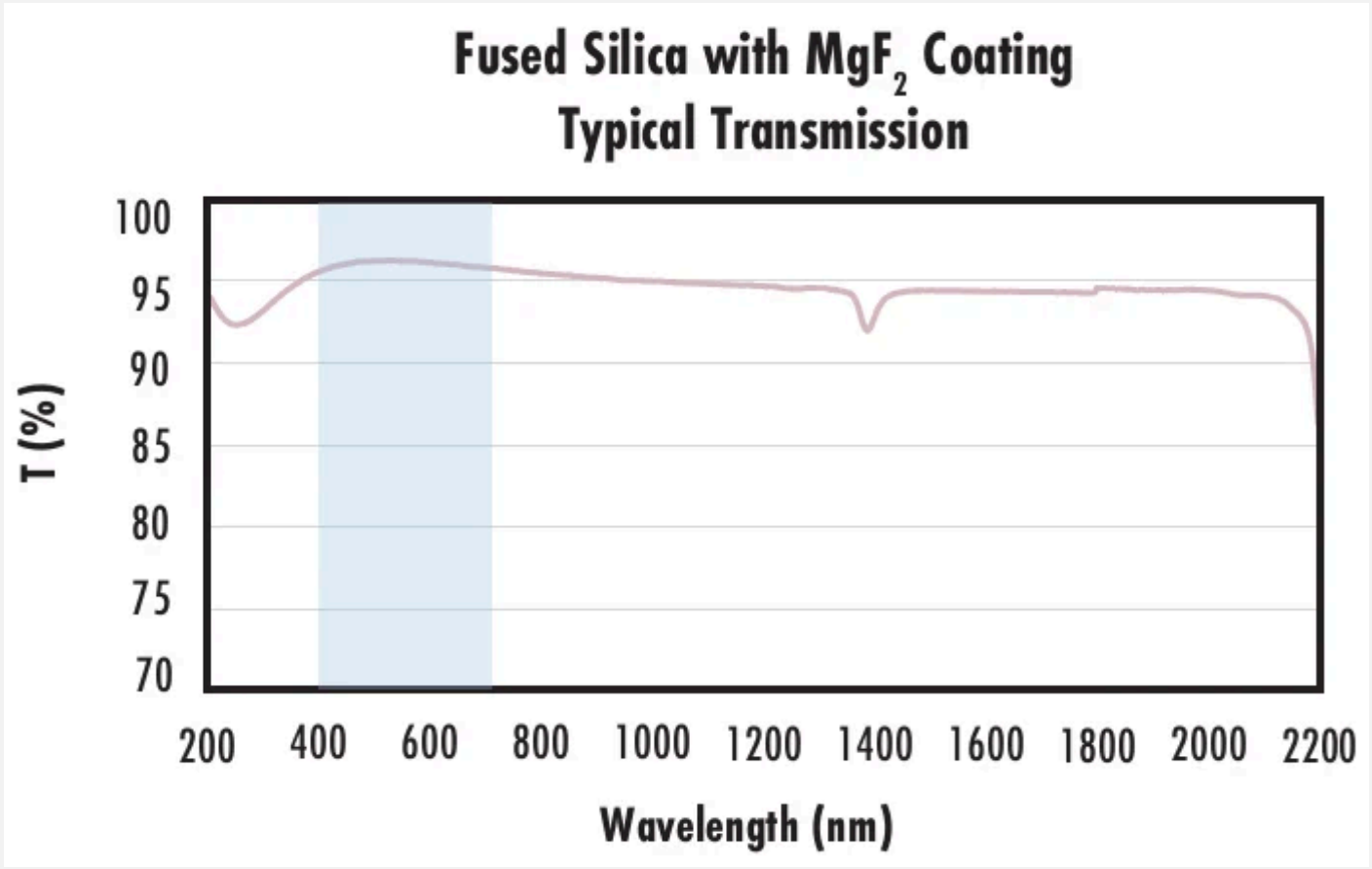

Typical transmission of a fused silica window with Mg
(400-700nm) coating at 0° AOI.

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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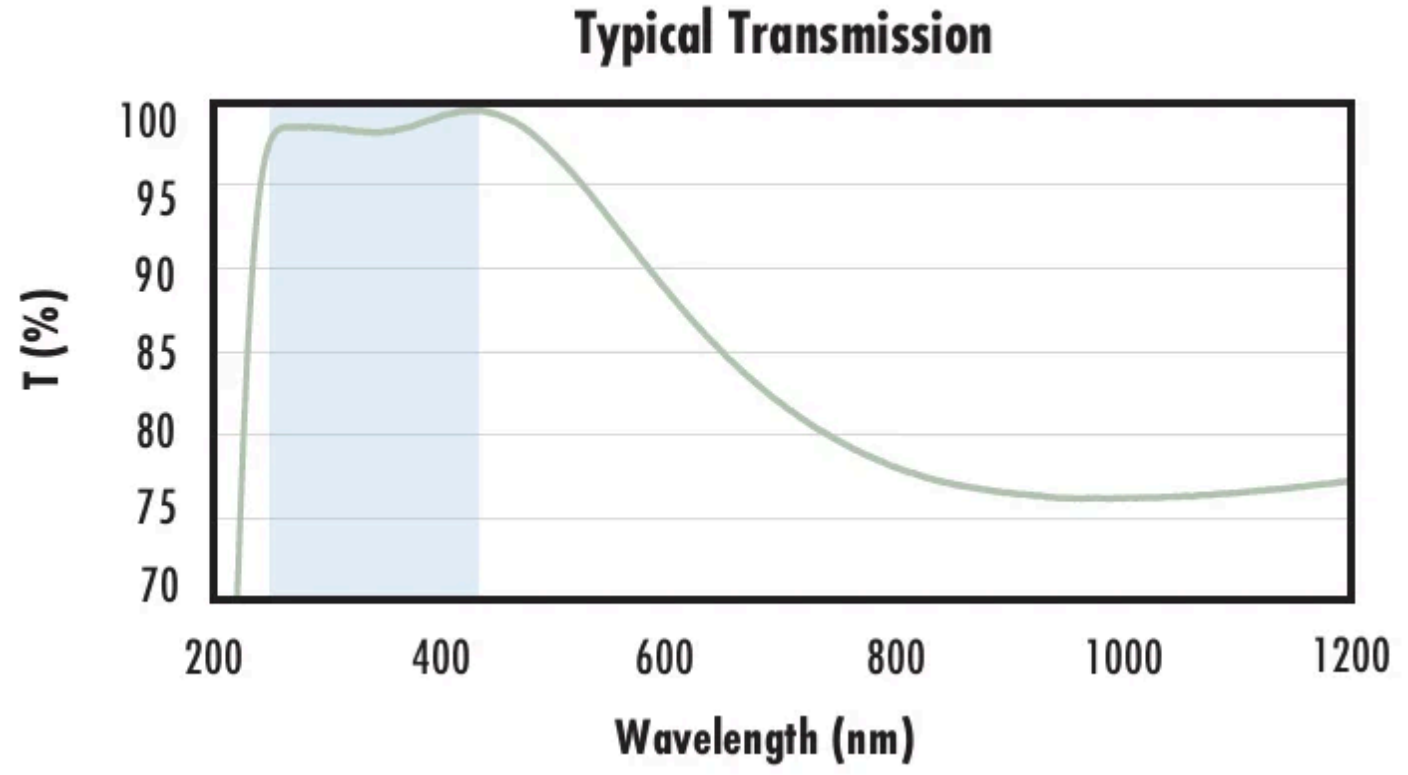

Typical transmission of a fused silica window with UV
(250-425nm) coating at 0° AOI.

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

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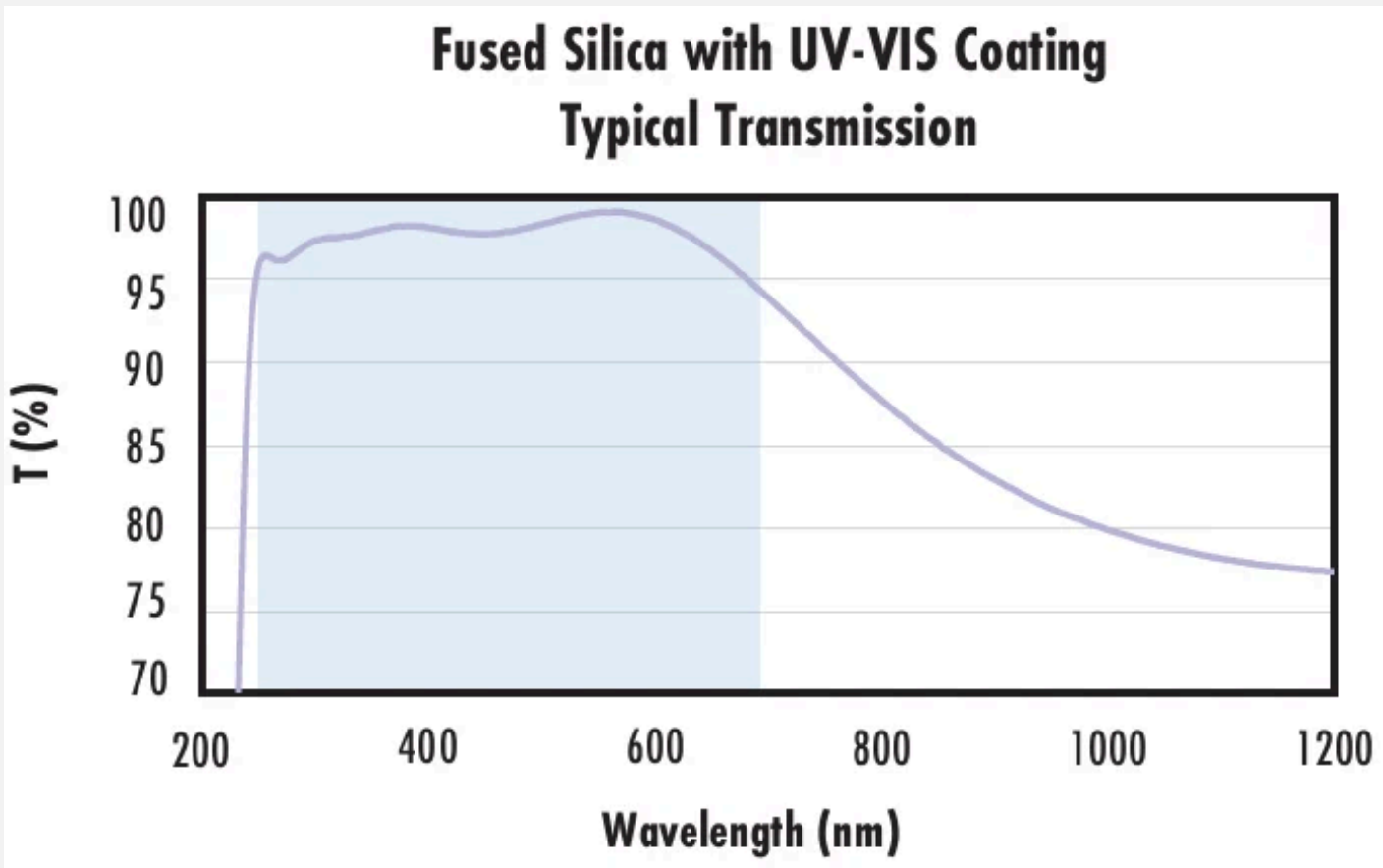

Typical transmission of a fused silica window with UV-
(250-700nm) coating at 0° AOI.

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

$R_{abs} \leq 1.0\%$ @ 350 - 450nm
$R_{avg} \leq 1.5\%$ @ 250 - 700nm

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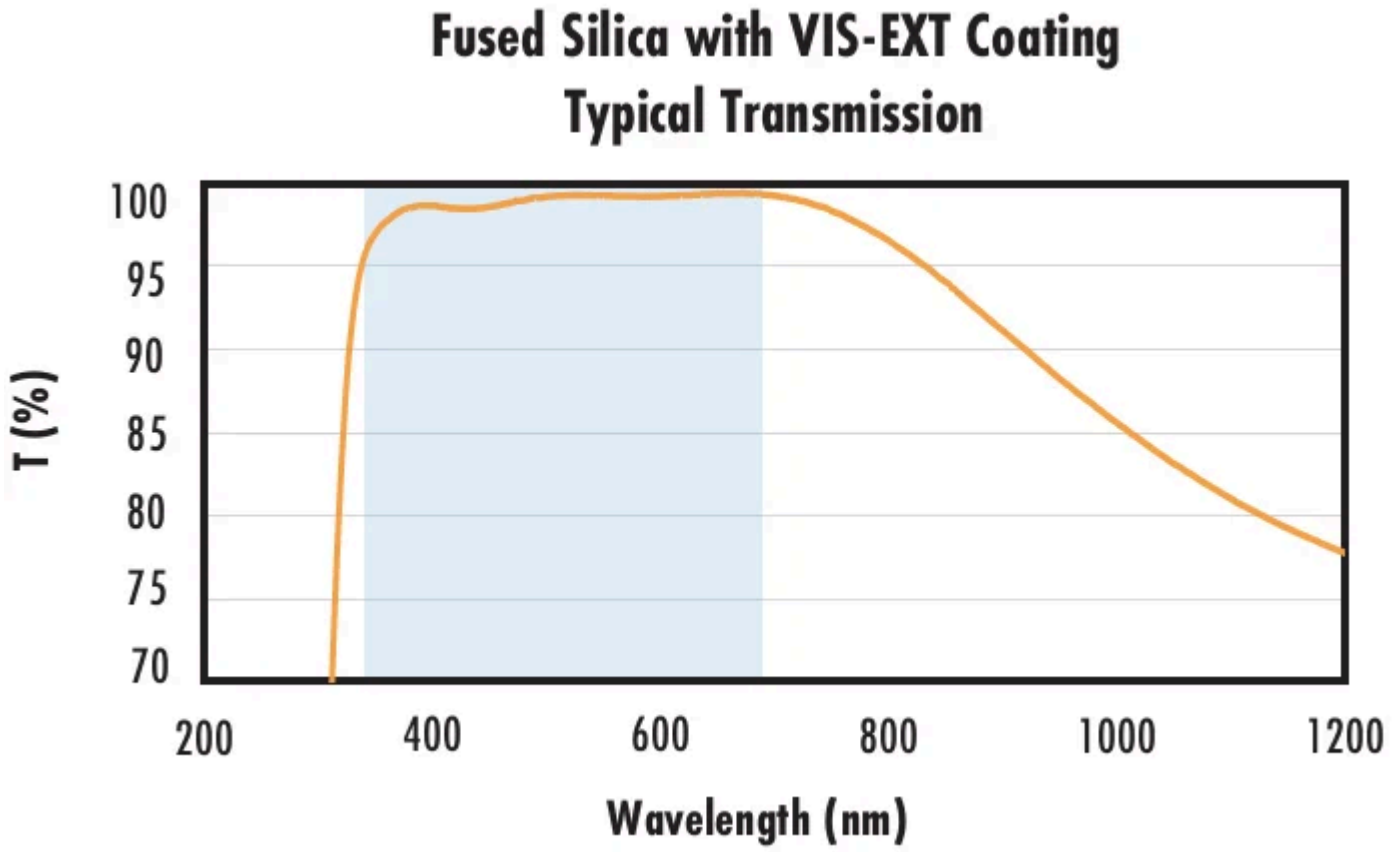

Typical transmission of a fused silica window with VIS-
(350-700nm) coating at 0° AOI.

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
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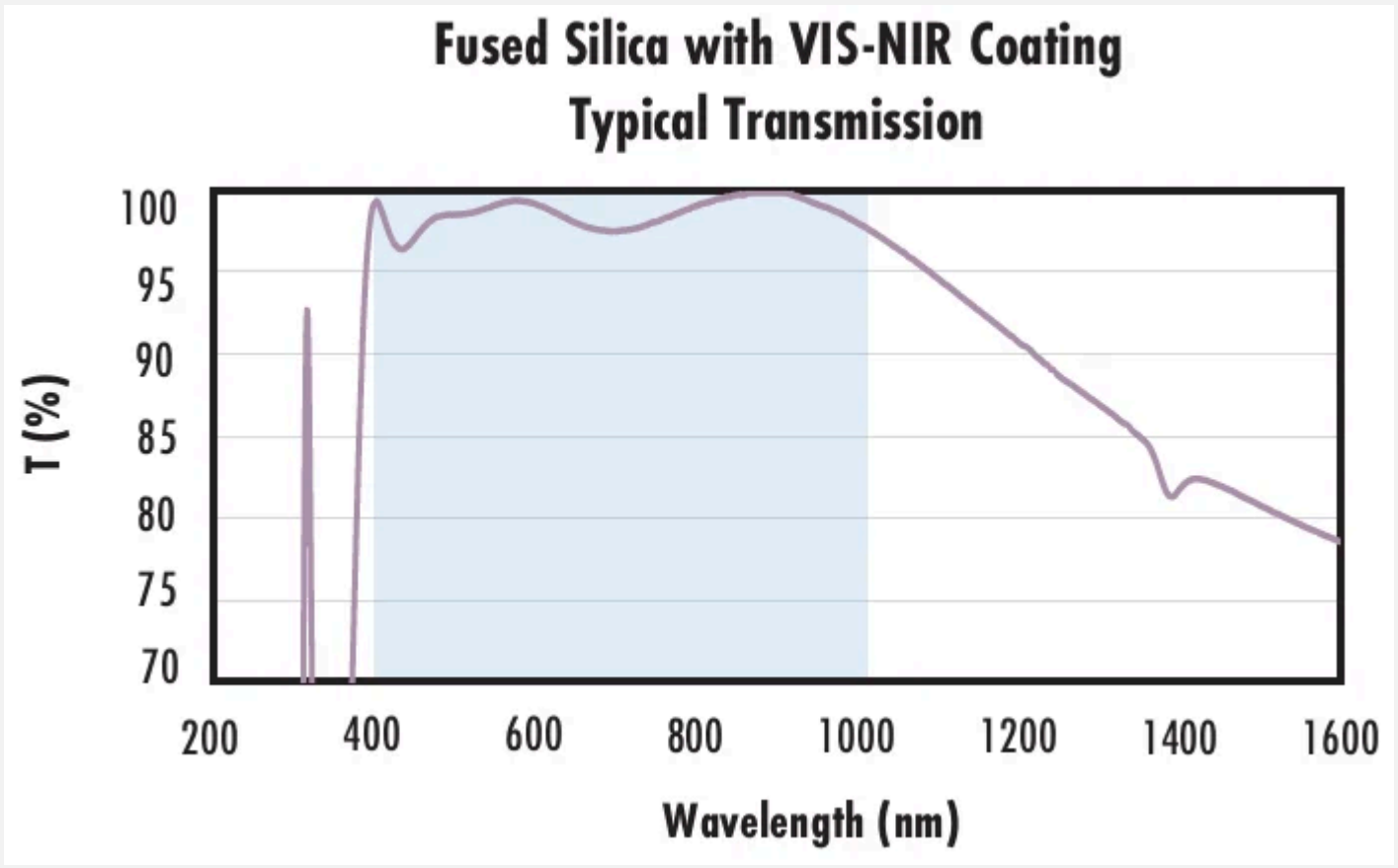

Typical transmission of a fused silica window with VIS-
(400-1000nm) coating at 0° AOI.

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

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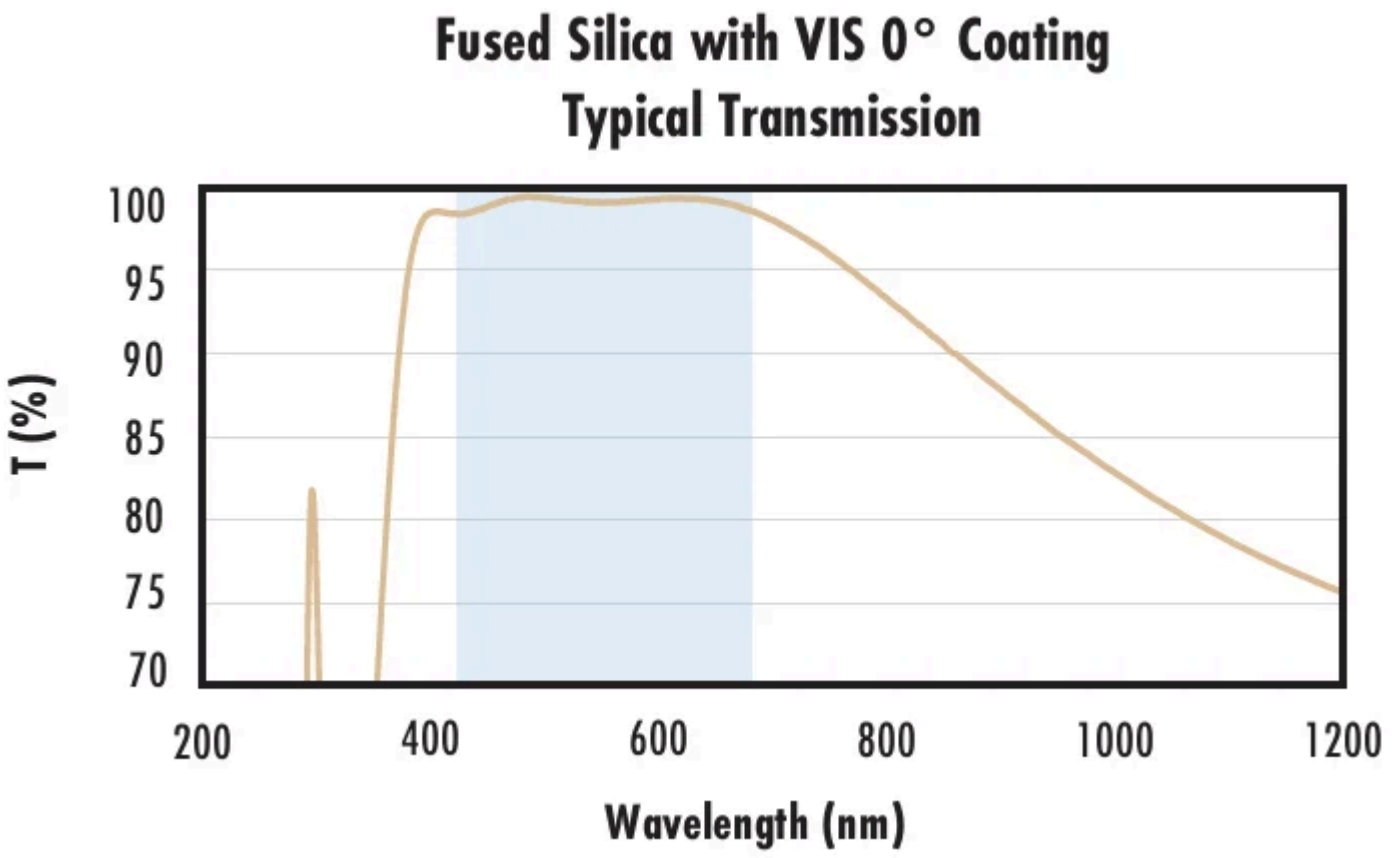

Typical transmission of a fused silica window with VIS
(425-675nm) coating at 0° AOI.

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

R_{avg} ≤ 0.4% @ 425 - 675nm

Data outside this range is not guaranteed and is fo
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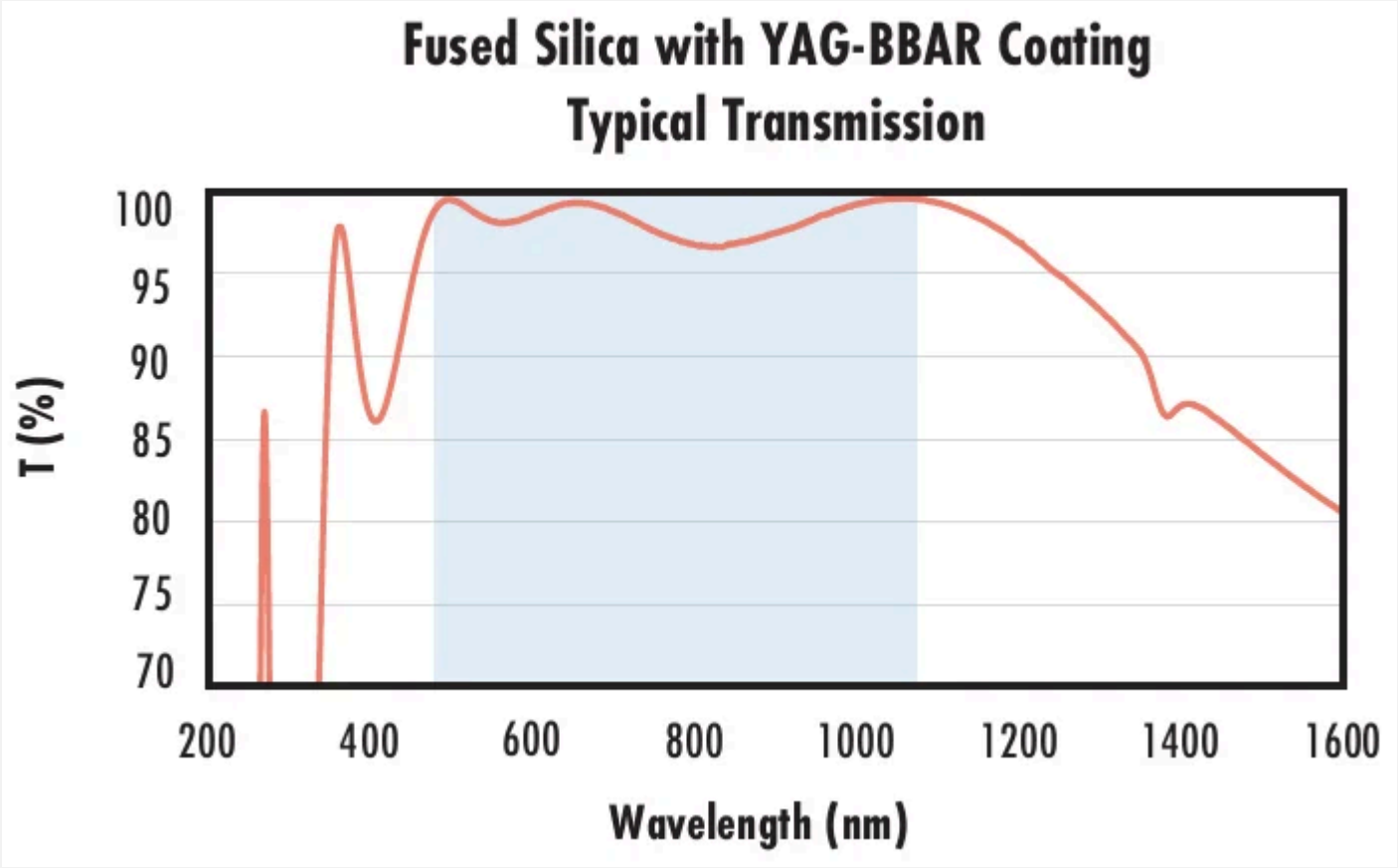

Typical transmission of a fused silica window with YA
BBAR (500-1100nm) coating at 0° AOI.

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

R_{abs} ≤ 0.25% @ 532nm
R_{abs} ≤ 0.25% @ 1064nm
R_{avg} ≤ 1.0% @ 500 - 1100nm

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

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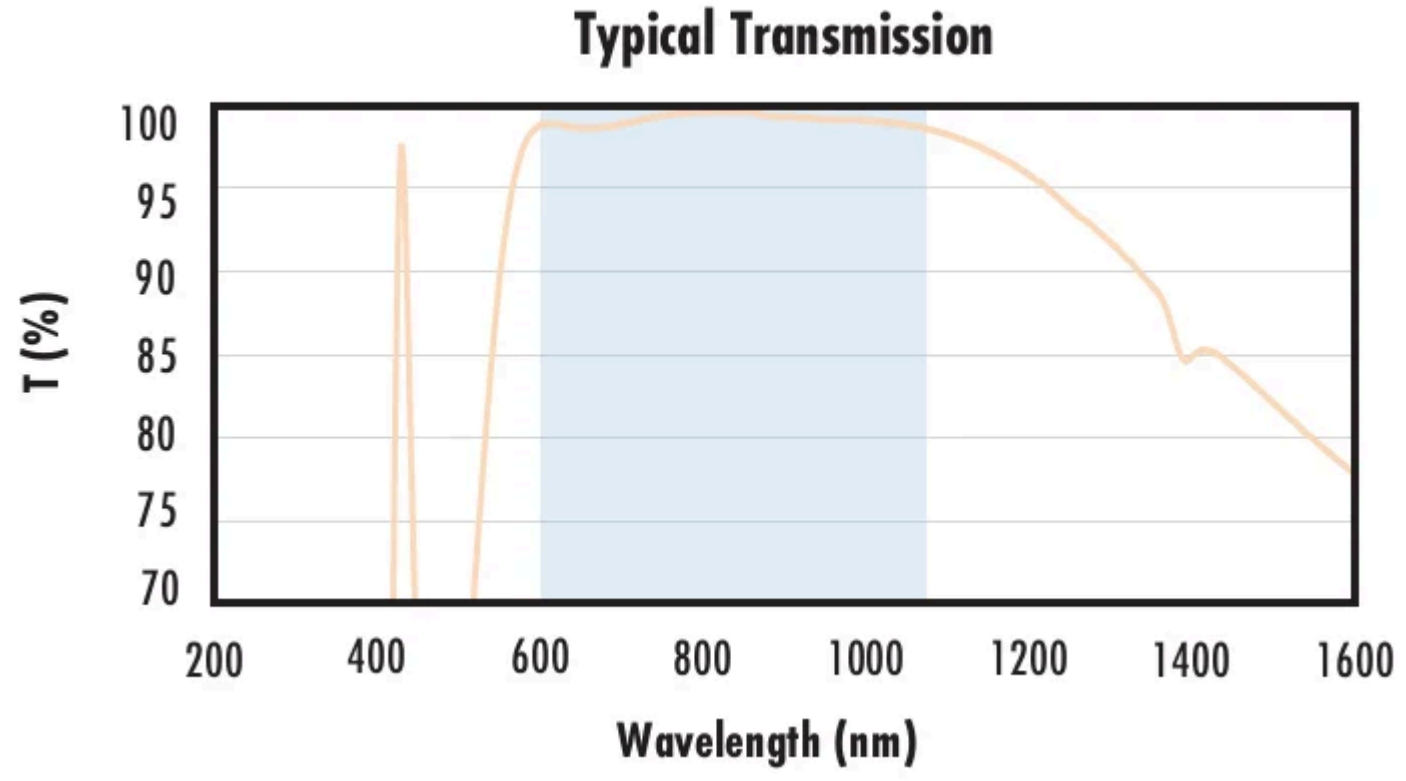

Typical transmission of a fused silica window with NI
(600 - 1050nm) coating at 0° AOI.

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

R_{avg} ≤ 0.5% @ 600 - 1050nm

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

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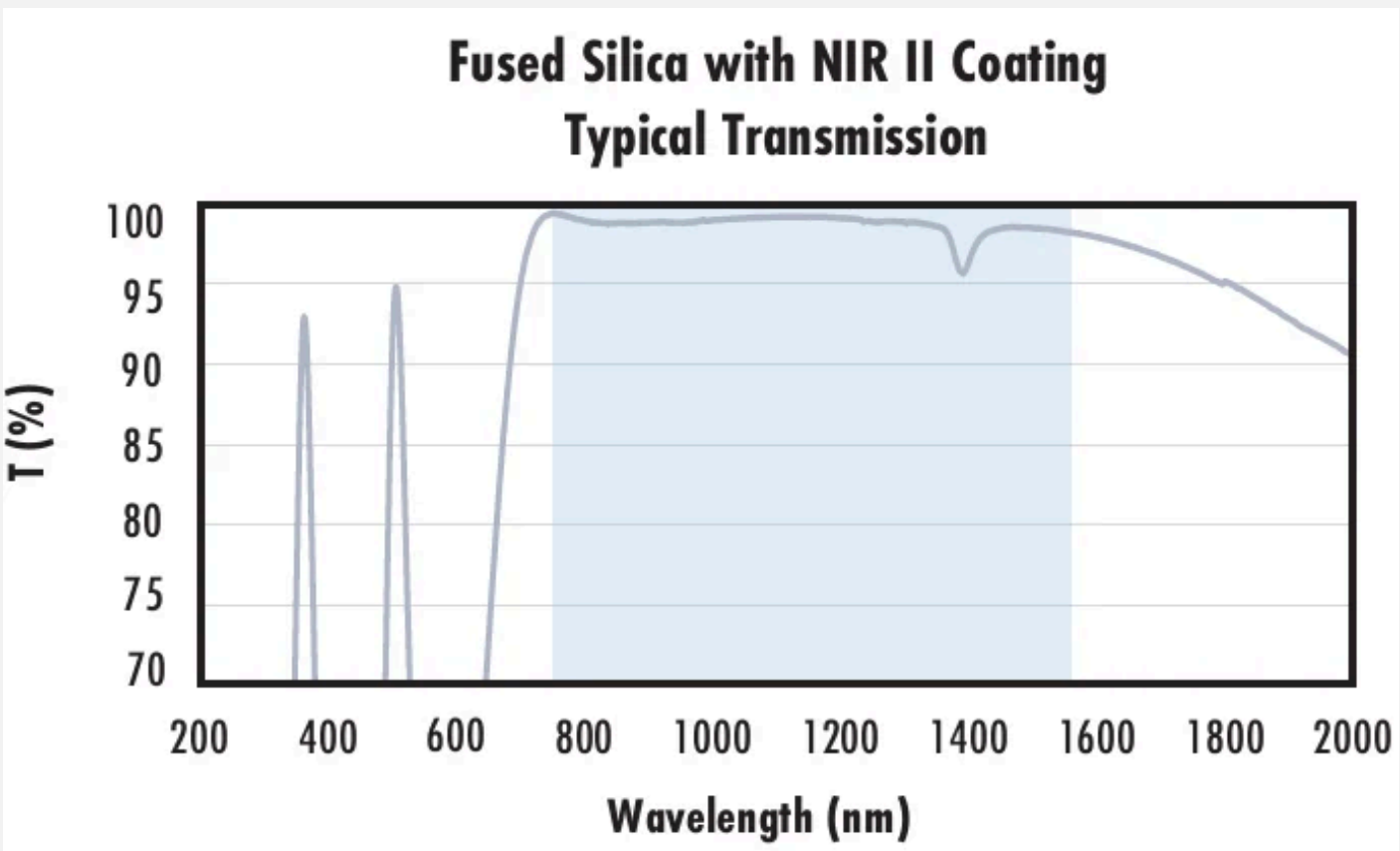

Typical transmission of a fused silica window with NI
(750 - 1550nm) coating at 0° AOI.

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
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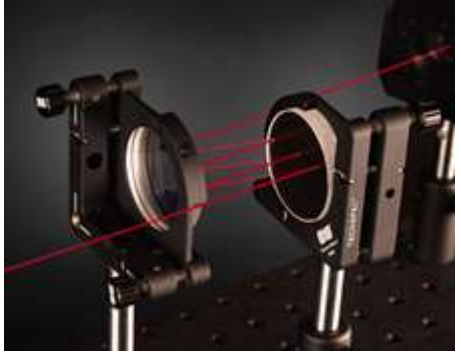
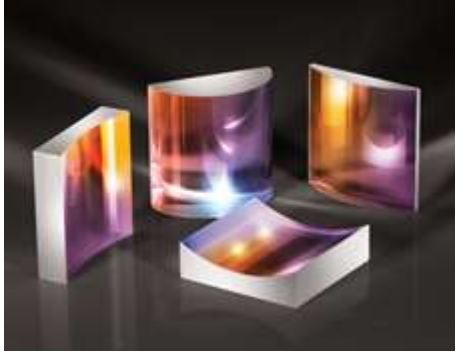


Laser Optics

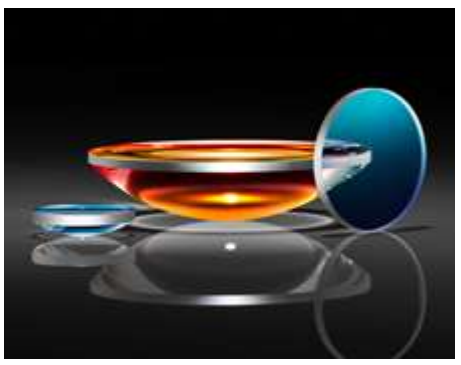
Laser Grade Laser Line Cylinder Lenses



Cylinder Lenses

Frequently Purchased Together

#45-334 - 25 x 25mm UV Enhanced Aluminum, λ/4 Mirror
£64.00
Qty



#48-276 - 25mm Dia. x 100mm FL Uncoated, UV Plano-Convex Lens
£116.00
Qty

#48-315 - 25.0mm Dia. x -50 FL, Uncoated, UV Plano-Concave Lens
£112.00
Qty

#49-241 - 9mm Dia. x 9mm FL, Uncoated, UV Double-Convex Lens
£103.20
Qty

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