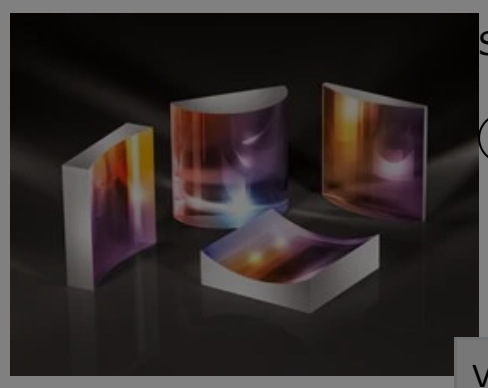
TECHSPEC®

25.4 x 25.4mm x ... X Cylinder Lens



TECHSPEC Beam Shaping Fused Silica Cylinder Lenses

Stock **#36-108** **20+ In Stock**

- 1 +

€170,00

ADD TO CART

Volume Pricing	
Qty 1-5	**€170,00** each
Qty 6-25	**€153,00** each
Qty 26-49	**€147,00** each
Need More?	**Request Quote**

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- 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:	UV-VIS (250-700nm)	**Wavelength Range (nm):**	350 - 700
Back Focal Length BFL (mm):	46.58	**Coating Specification:**	R_{abs} ≤1.0% @ 350 - 450nm R_{avg} ≤1.5% @ 250 - 700nm

Radius R_1 (mm):	22.93	**Surface Quality:**	20-10
Power (P-V) @ 632.8nm:	1.5λ	**Irregularity (P-V) @**	λ/4
Plano Axis Wedge (arcmin):	<3		

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

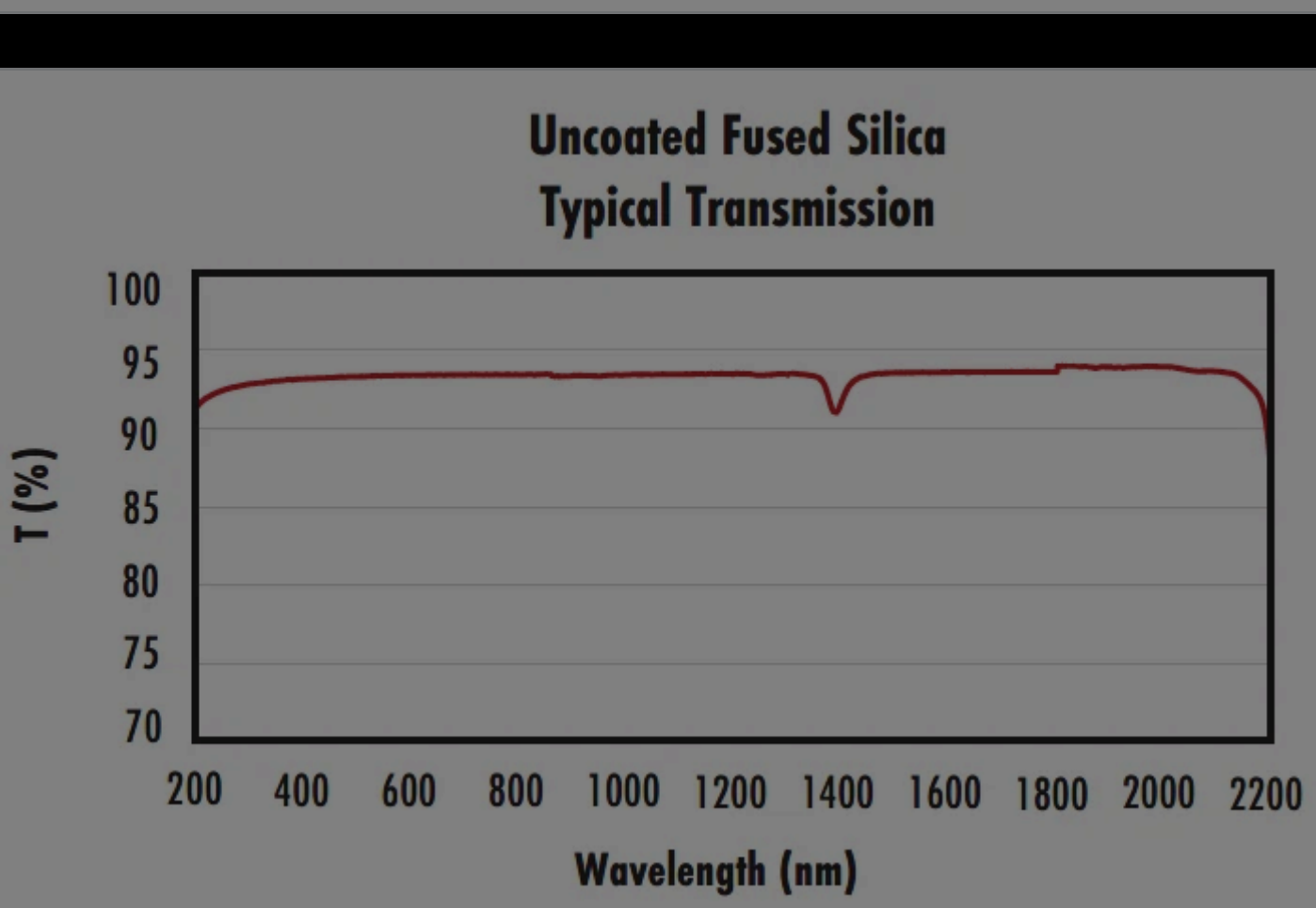
Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**

Product Details

- 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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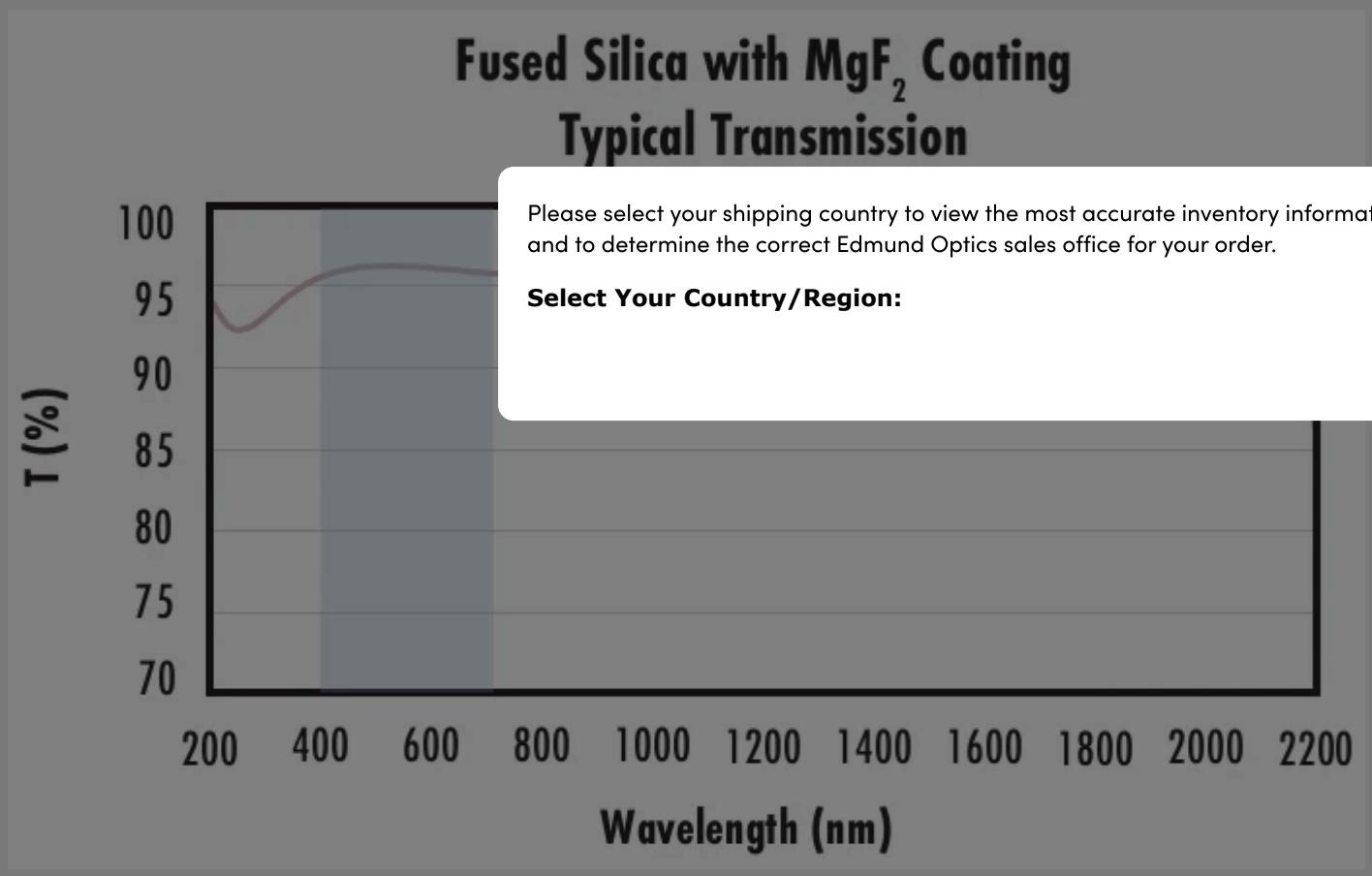

ical transmission of a fused silica window with Mg
(400-700nm) coating at 0° AOI.

he 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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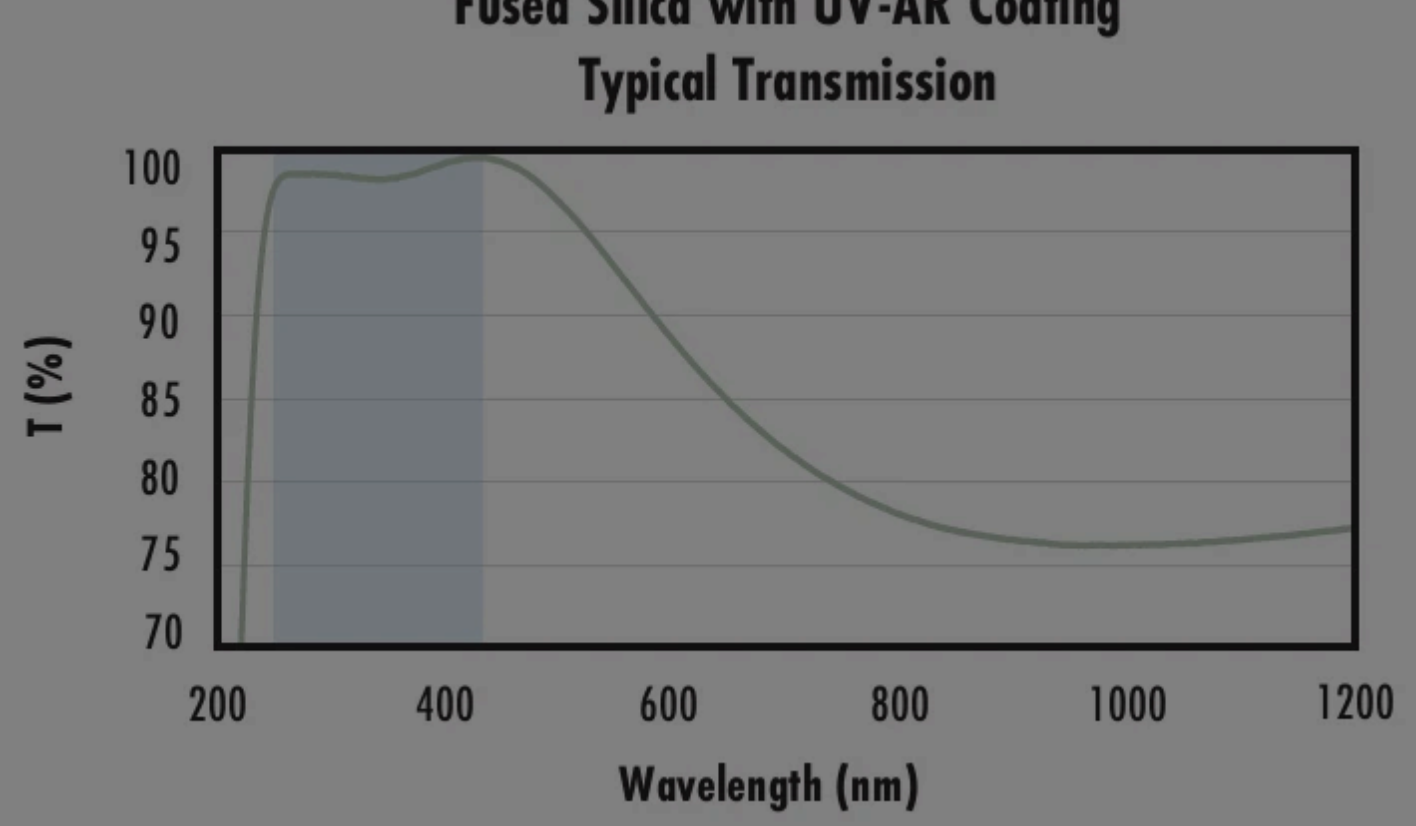

Typical transmission of a fused silica window with UV
(250-425nm) coating at 0° AOI.

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

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

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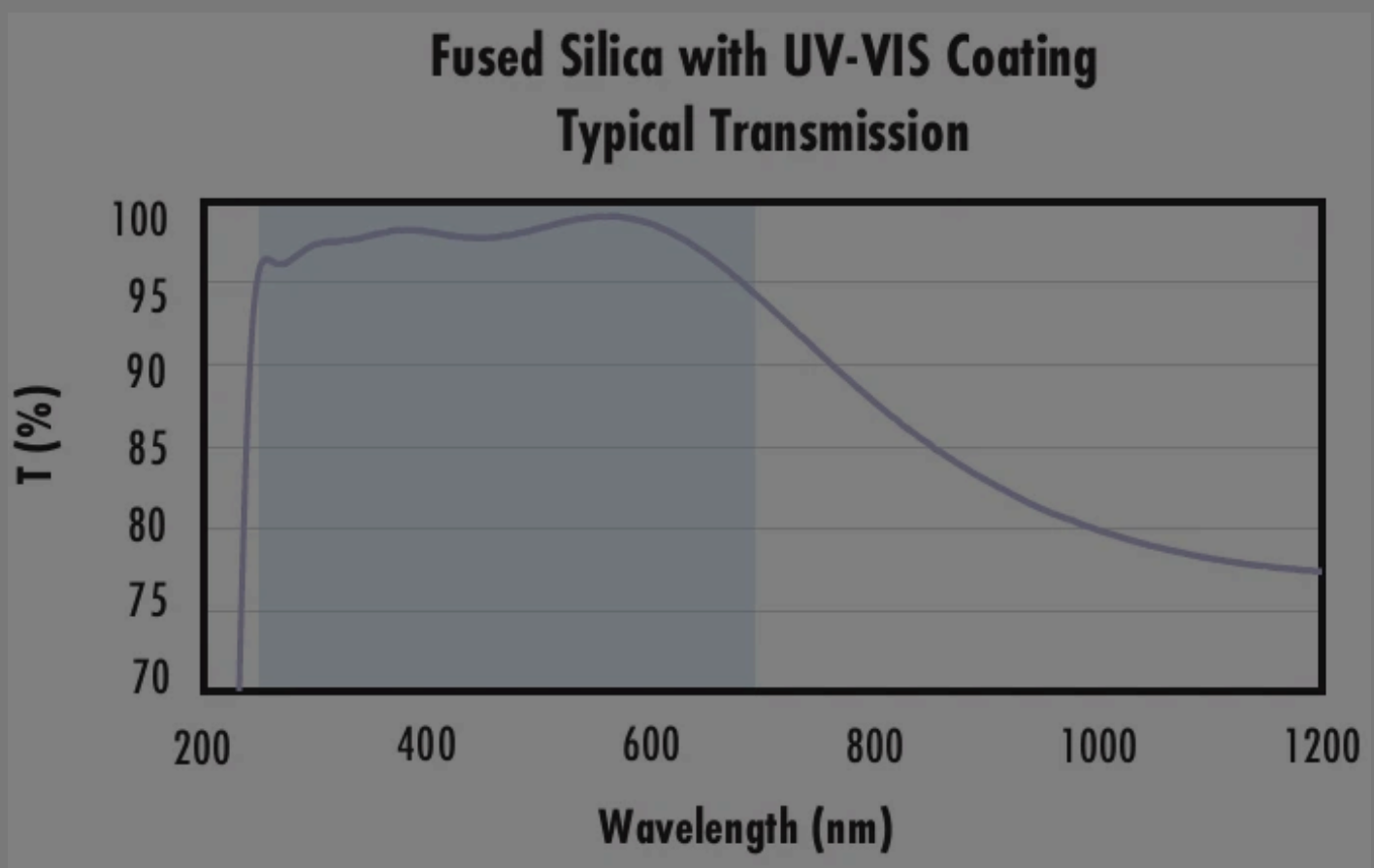

Typical transmission of a fused silica window with UV-
(250-700nm) coating at 0° AOI.

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

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

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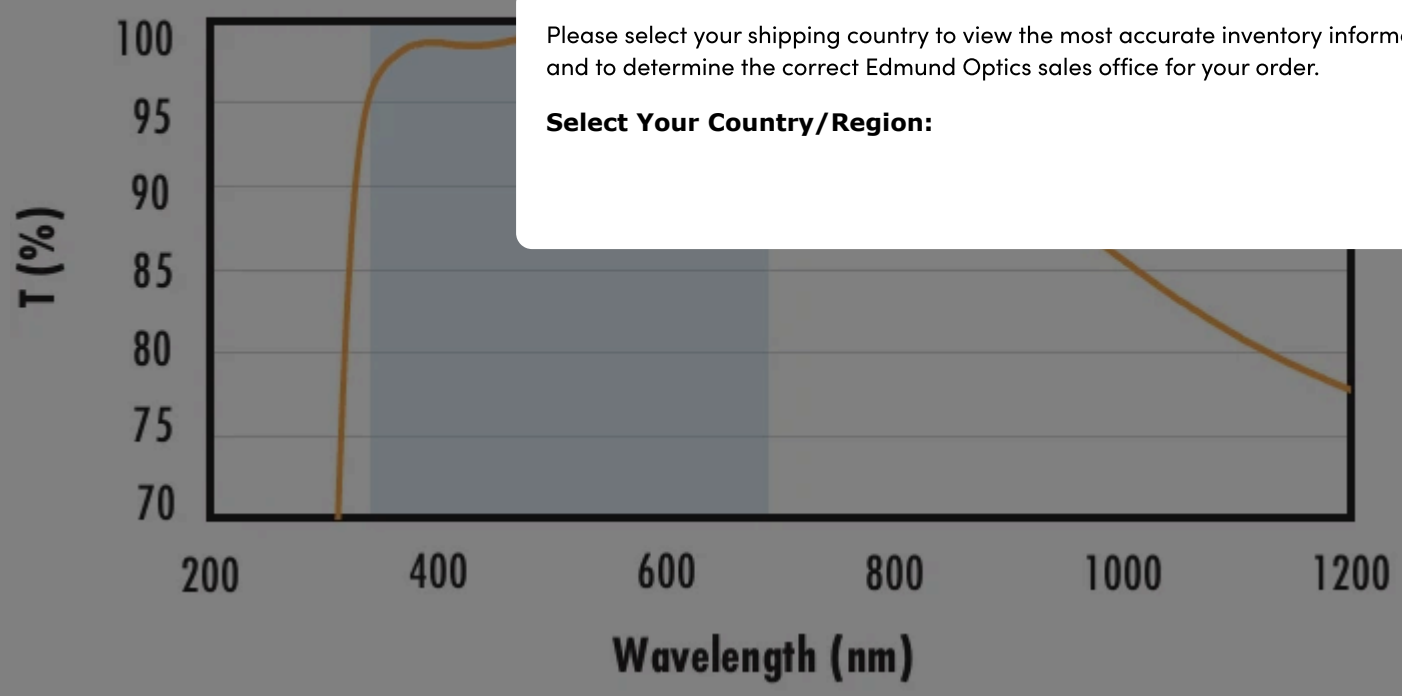

cal transmission of a fused silica window with VIS-(350-700nm) coating at 0° AOI.

he 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 reference only.

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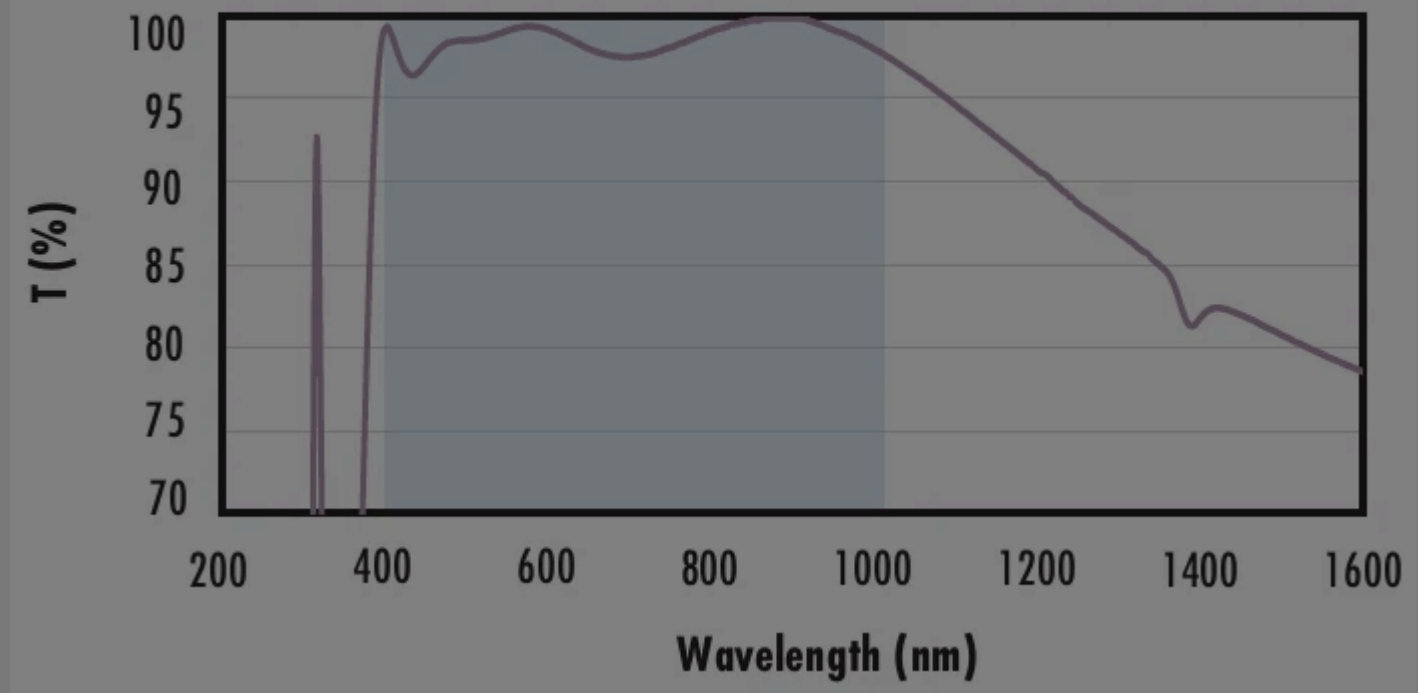

Typical transmission of a fused silica window with VIS-(400-1000nm) coating at 0° AOI.

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

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

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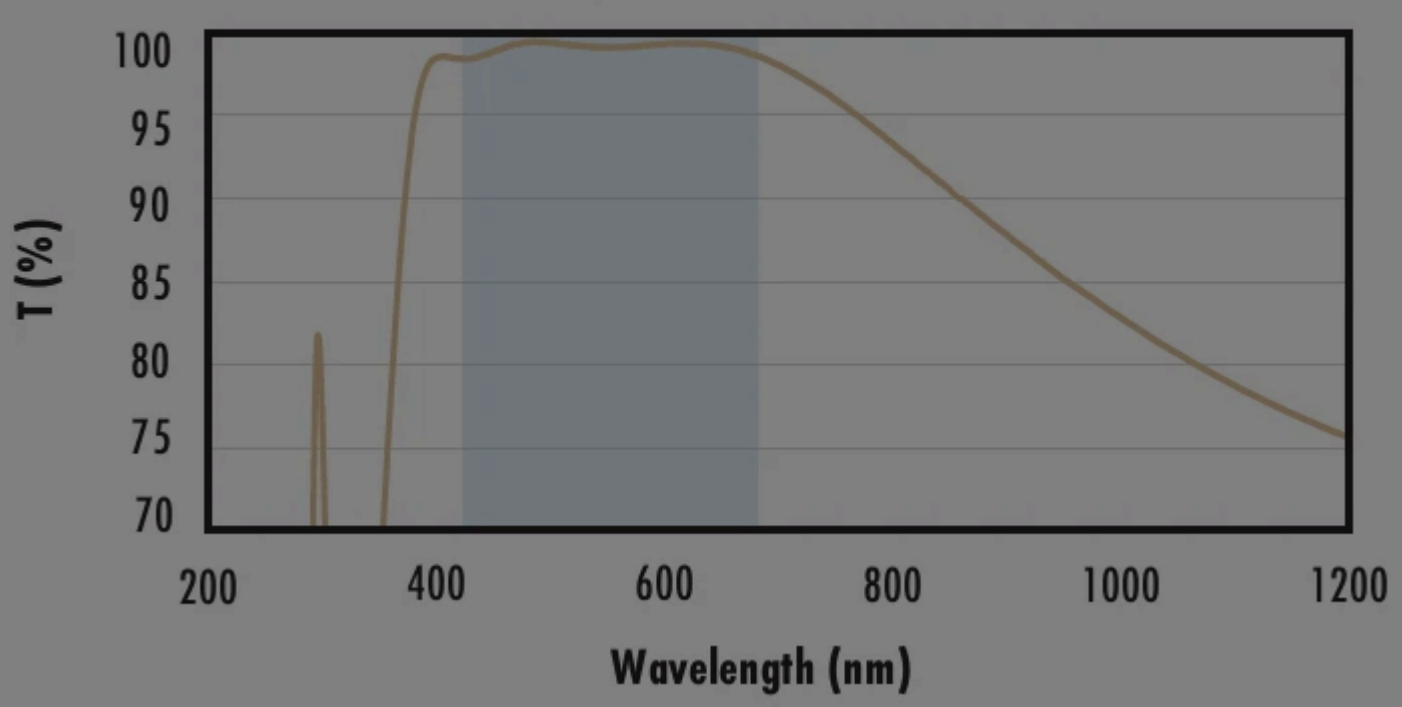

Typical transmission of a fused silica window with VIS (425-675nm) coating at 0° AOI.

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 reference only.

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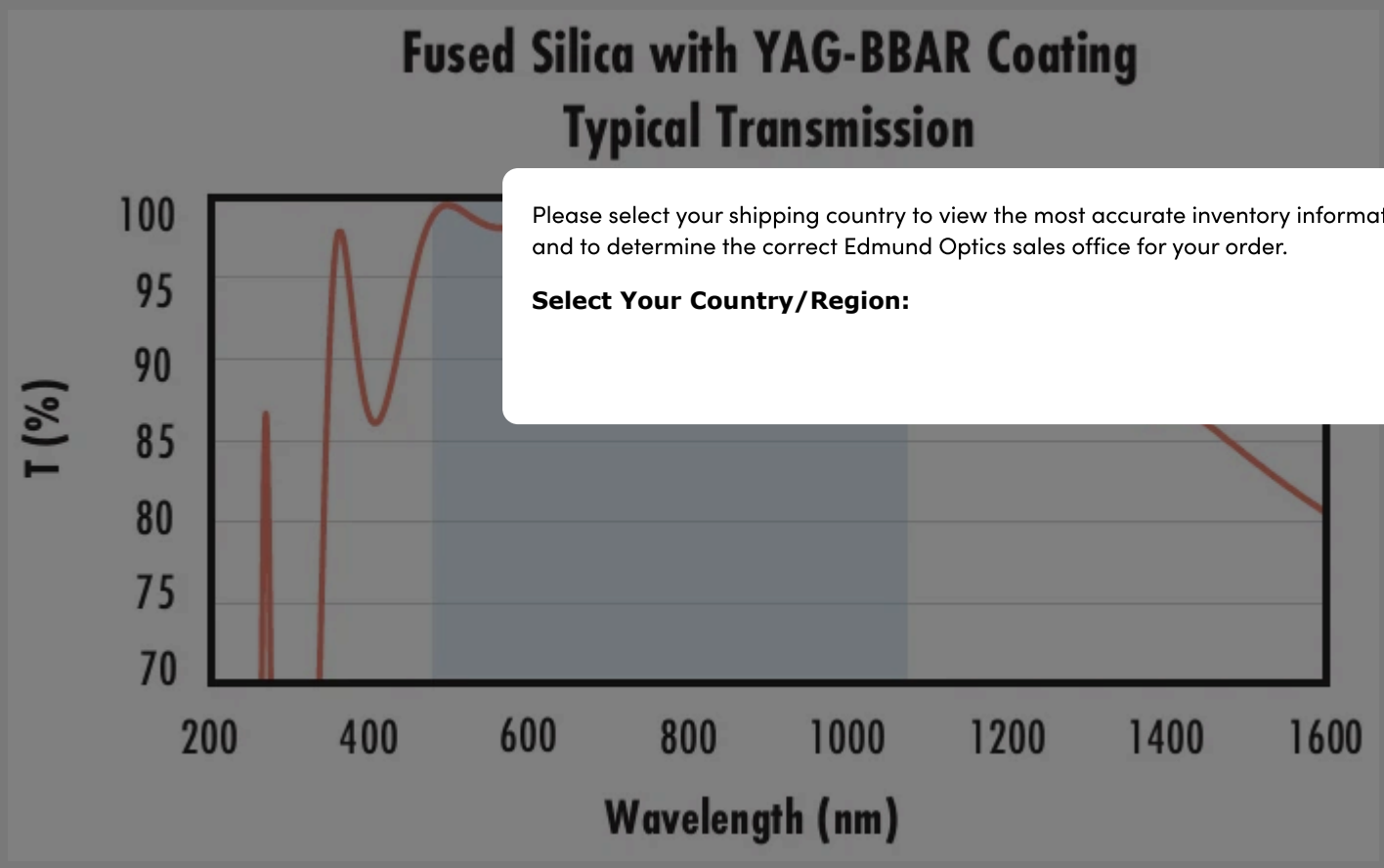

ical transmission of a fused silica window with YA
BBAR (500-1100nm) coating at 0° AOI.

he 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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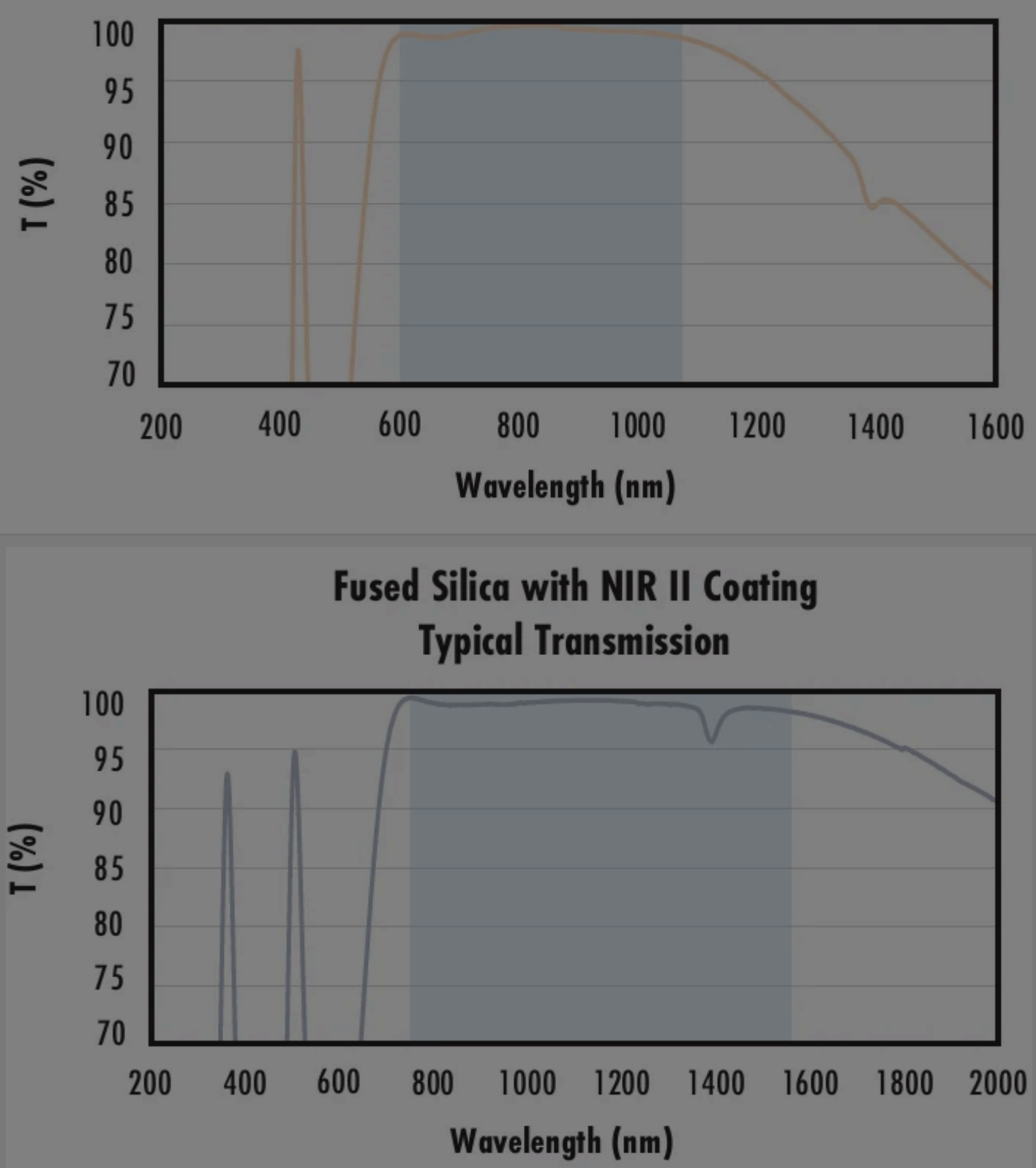

Typical transmission of a fused silica window with NI
(600 - 1050nm) coating at 0° AOI.

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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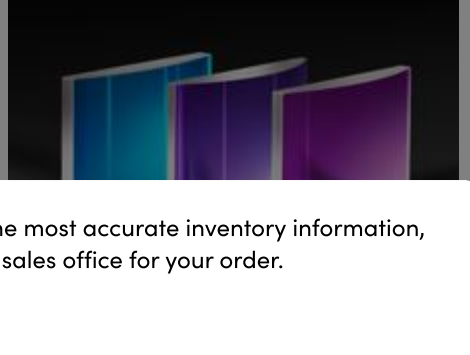
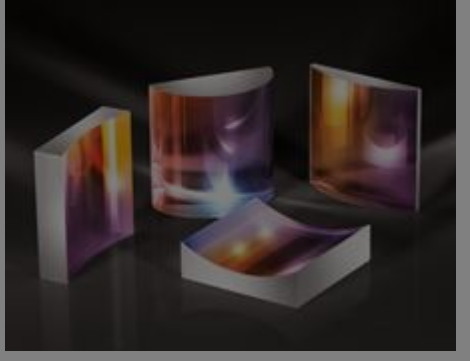
Related Products

Laser Beam Shaping





Cylinder Lenses

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

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Frequently Purchased Together

#03-627 - C-Mount Male to Olympus (RMS/DIN) Female Step-Down Adapter

€52,00

Qty

#03-676 - 7.0 - 40.0 Optic Height, English Bar-Type Optic Holder

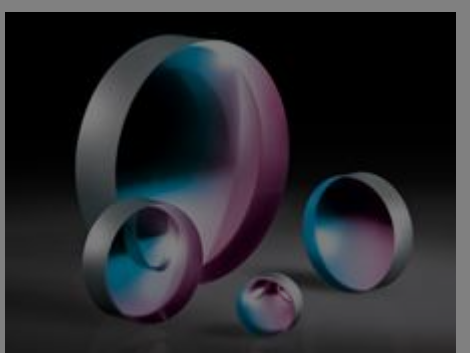
€106,00

Qty

#34-178 - 25.0mm Dia. x 200.0mm FL, VIS-EXT Coated, Plano-Convex Lens

€54,00

Qty



#48-052 - 12.0mm Dia. x -40 FL, UV-AR Coated, UV Plano-Concave Lens

€157,00

Qty

Resources

Media Type

- [ ] Application Note
- [ ] Trending in Optics
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