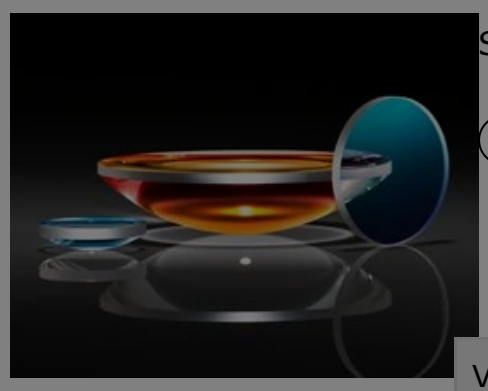
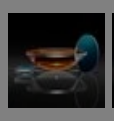
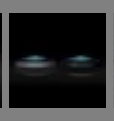
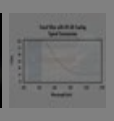
TECHSPEC®

9mm Dia. x 36m...nvex Lens



UV Fused Silica Plano-Convex (PCX) Lenses

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€151,00

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General

Type:	Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):	9.00 +0.0/-0.025	**Centering (arcmin):**	<1
Center Thickness CT (mm):	2.00 ±0.05	**Edge Thickness ET (mm):**	1.38
Clear Aperture CA (mm):	8.1	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	36.00 @ 587.6nm	**Back Focal Length BFL (mm):**	34.63
Coating:	UV-AR (250-425nm)	**Coating Specification:**	R_{abs} ≤1.0% @ 250 - 425nm R_{avg} ≤0.75% @ 250 - 425nm R_{avg} ≤0.5% @ 370 - 420nm
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 R_1 (mm):**	16.51

f/#:	4	**Numerical Aperture NA:**	0.13
Wavelength Range (nm):	250 - 425	**Damage Threshold**	3 J/cm^2 @ 355nm, 10ns

Regulatory Compliance

RoHS 2015:	**Compliant**	**Conformance:**	
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.**

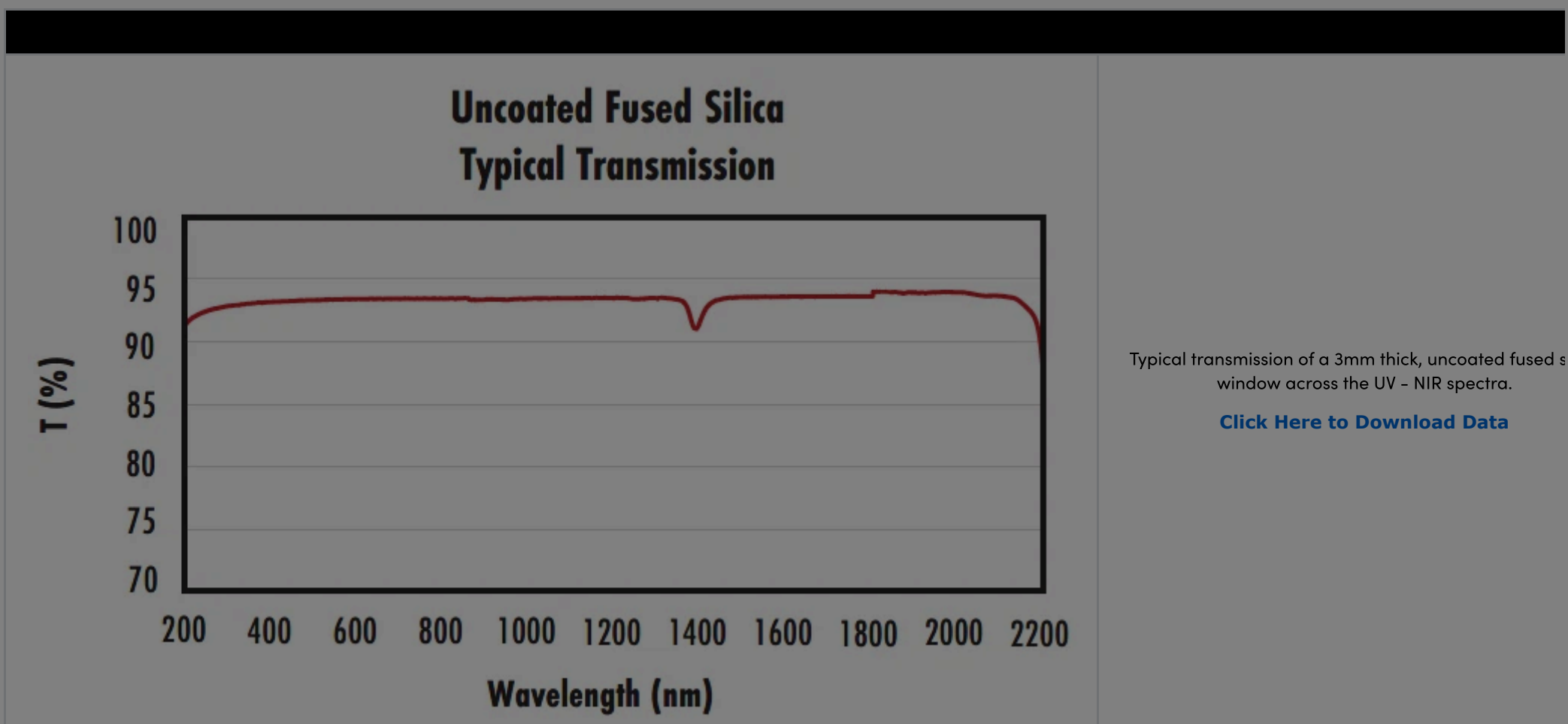
Product Details

- AR Coated to Provide <0.75% Reflection per Surface for 250 - 425nm
- Precision Fused Silica Substrate
- Various Coating Options: **Uncoated**, **MgF_2**, **UV-VIS**, **VIS-EXT**, **VIS-NIR**, **VIS 0°**, **YAG-BBAR**, **NIR I**, and **NIR II**

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

Technical Information

UV FS Transmission Curve



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

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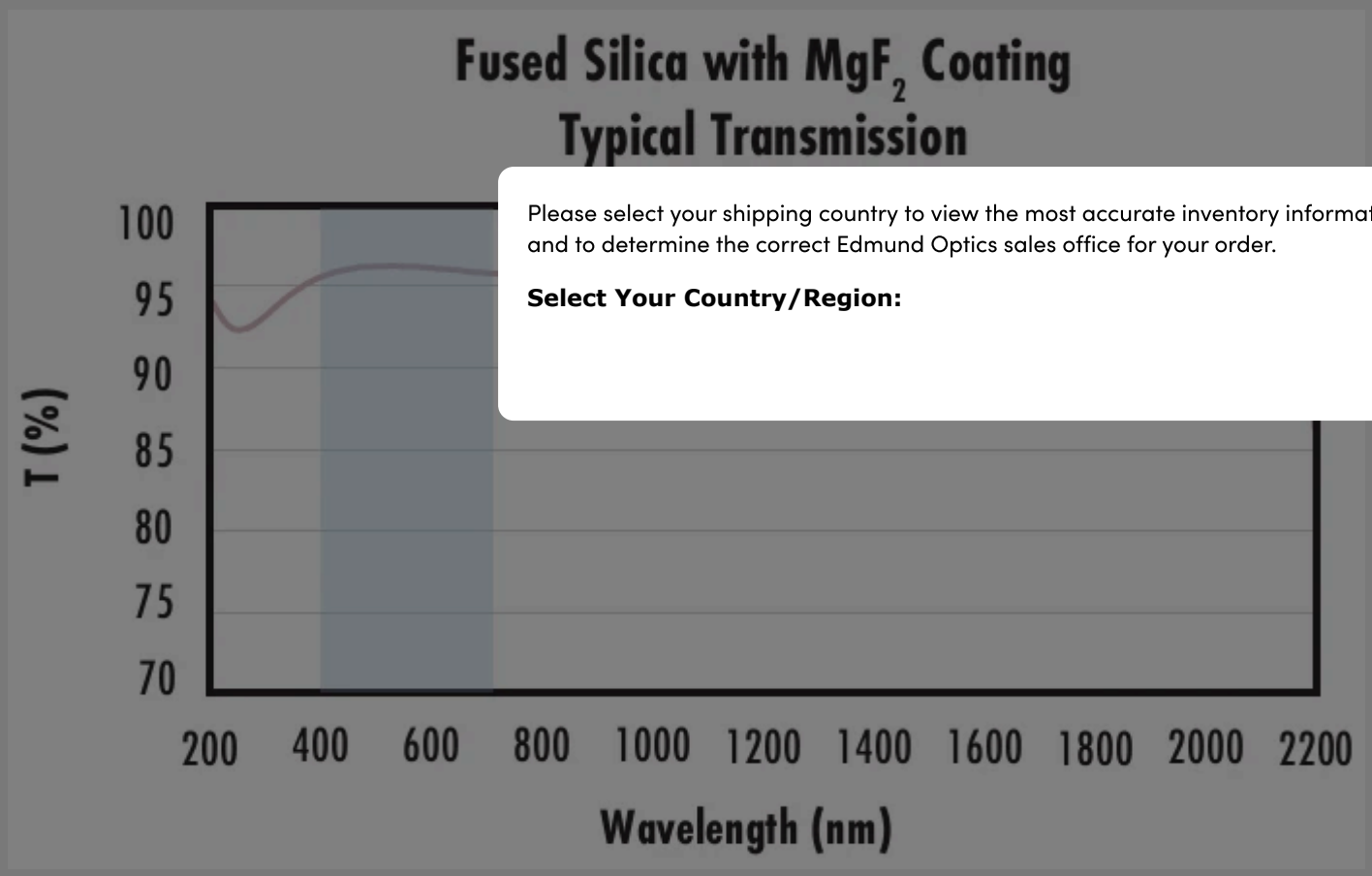

ical transmission of a 3mm thick fused silica wind
with MgF2 (400-700nm) coating at 0° AOI.

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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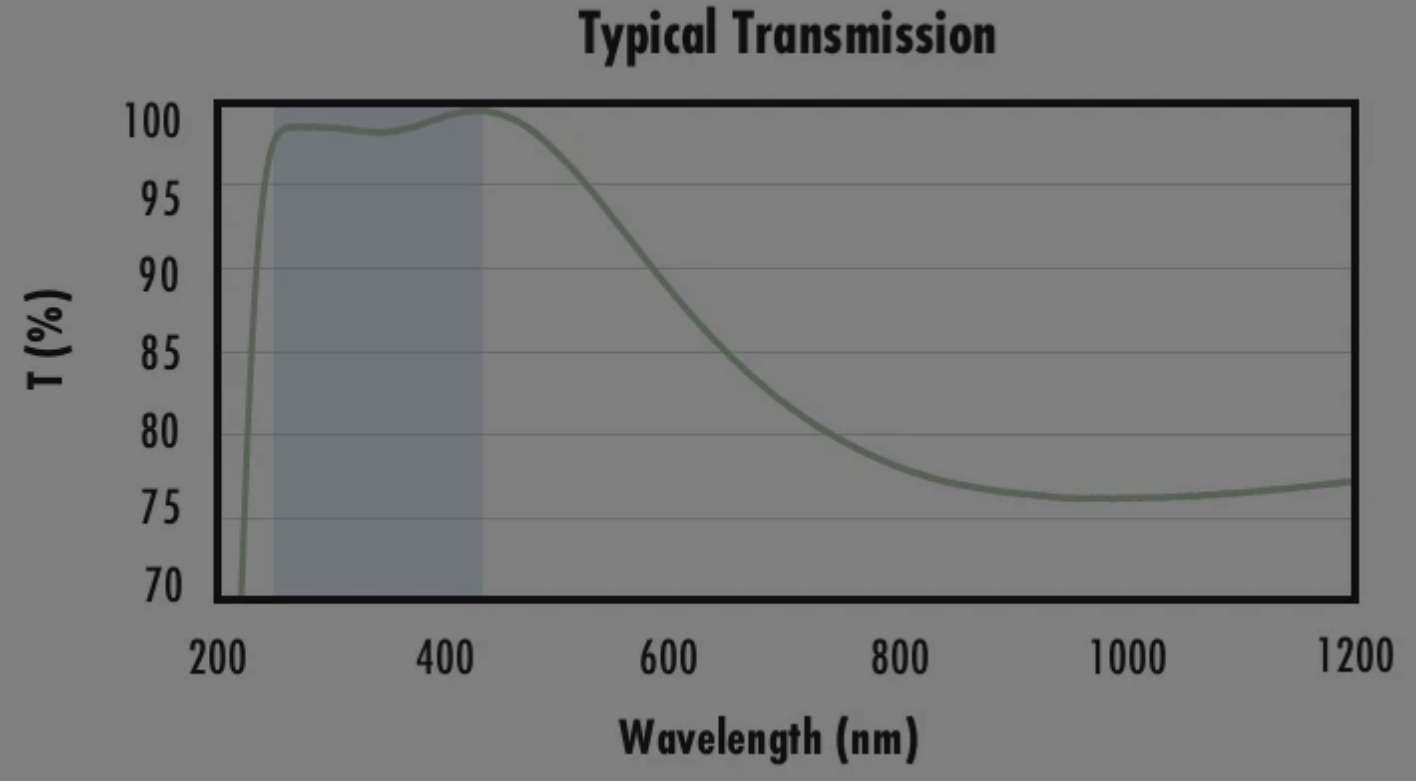

Typical transmission of a 3mm thick fused silica wind
with UV-AR (250-425nm) coating at 0° AOI.

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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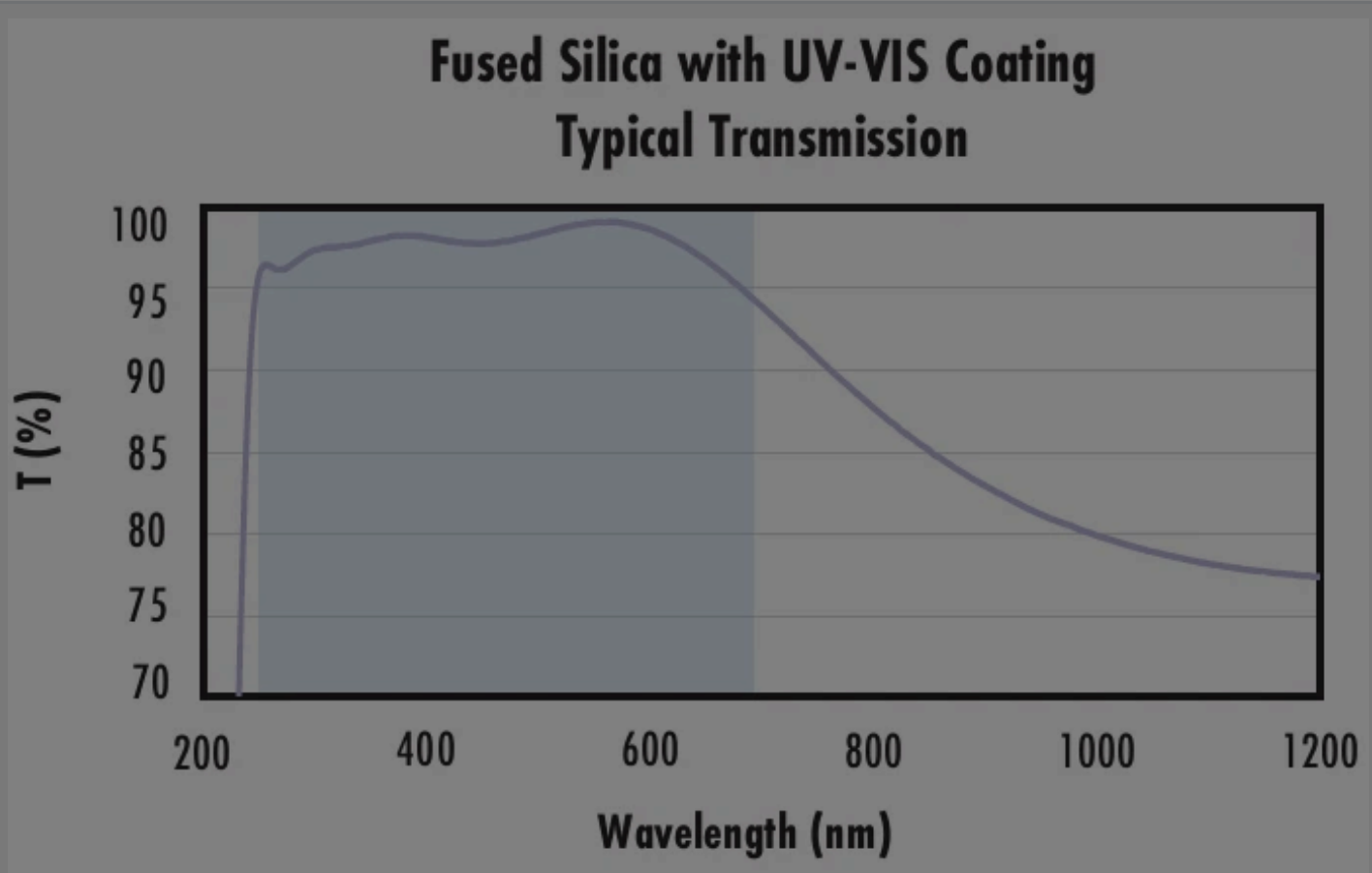

Typical transmission of a 3mm thick fused silica wind
with UV-VIS (250-700nm) coating at 0° AOI.

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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reference only.

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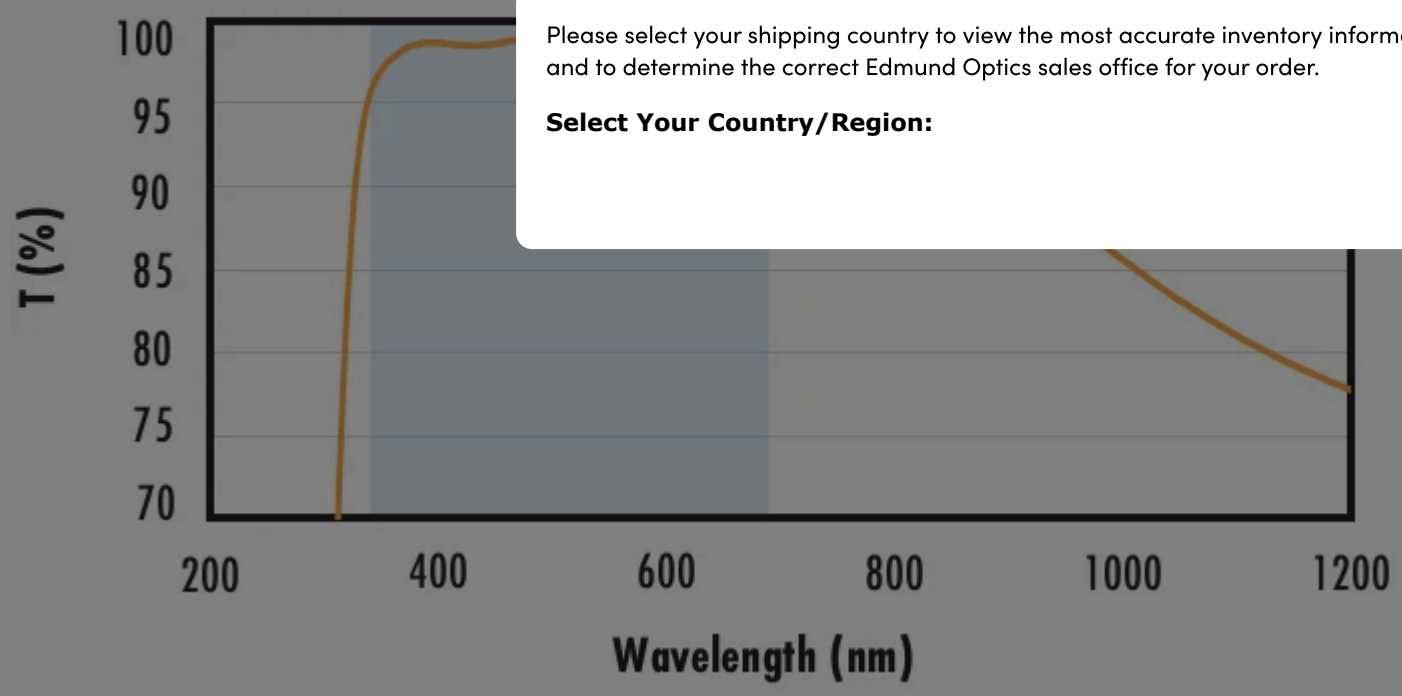

ical transmission of a 3mm thick fused silica wind
with VIS-EXT (350-700nm) coating at 0° AOI.

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

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

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reference only.

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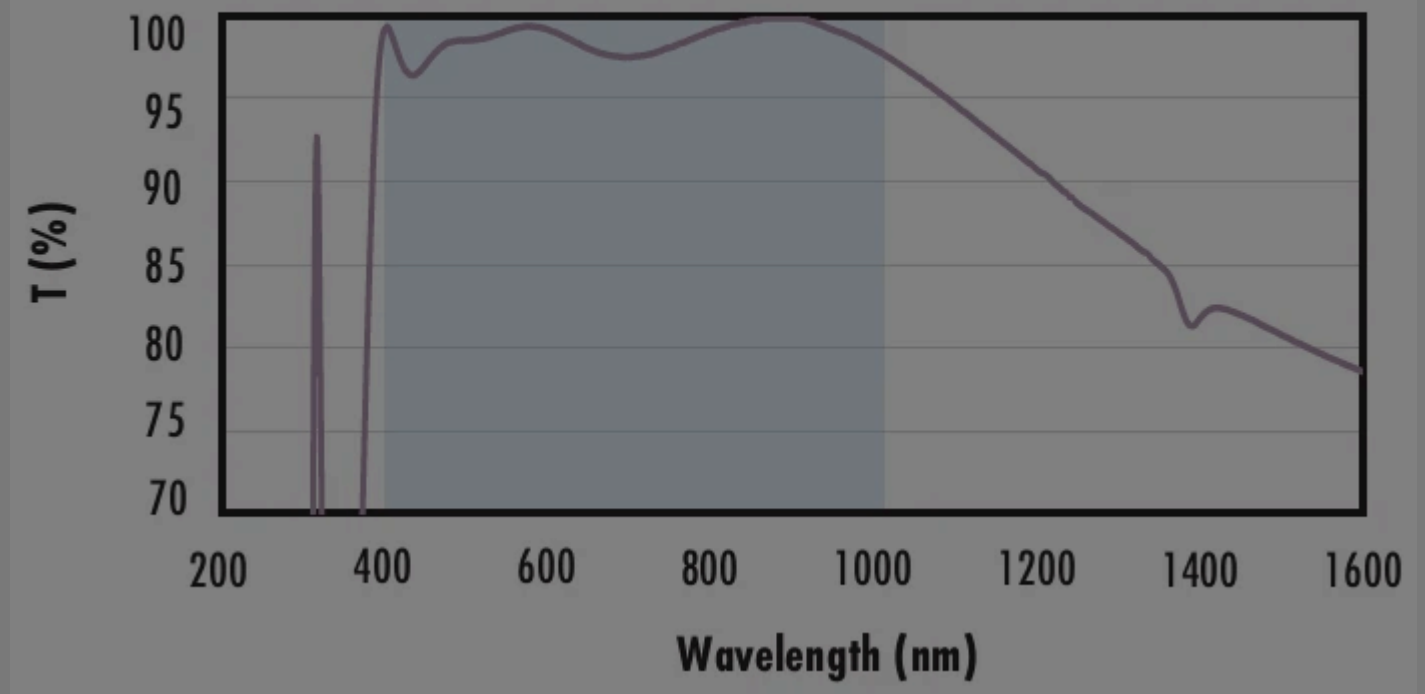

Typical transmission of a 3mm thick fused silica wind
with VIS-NIR (400-1000nm) coating at 0° AOI.

The blue shaded region indicates the coating desig
wavelengh 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

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reference only.

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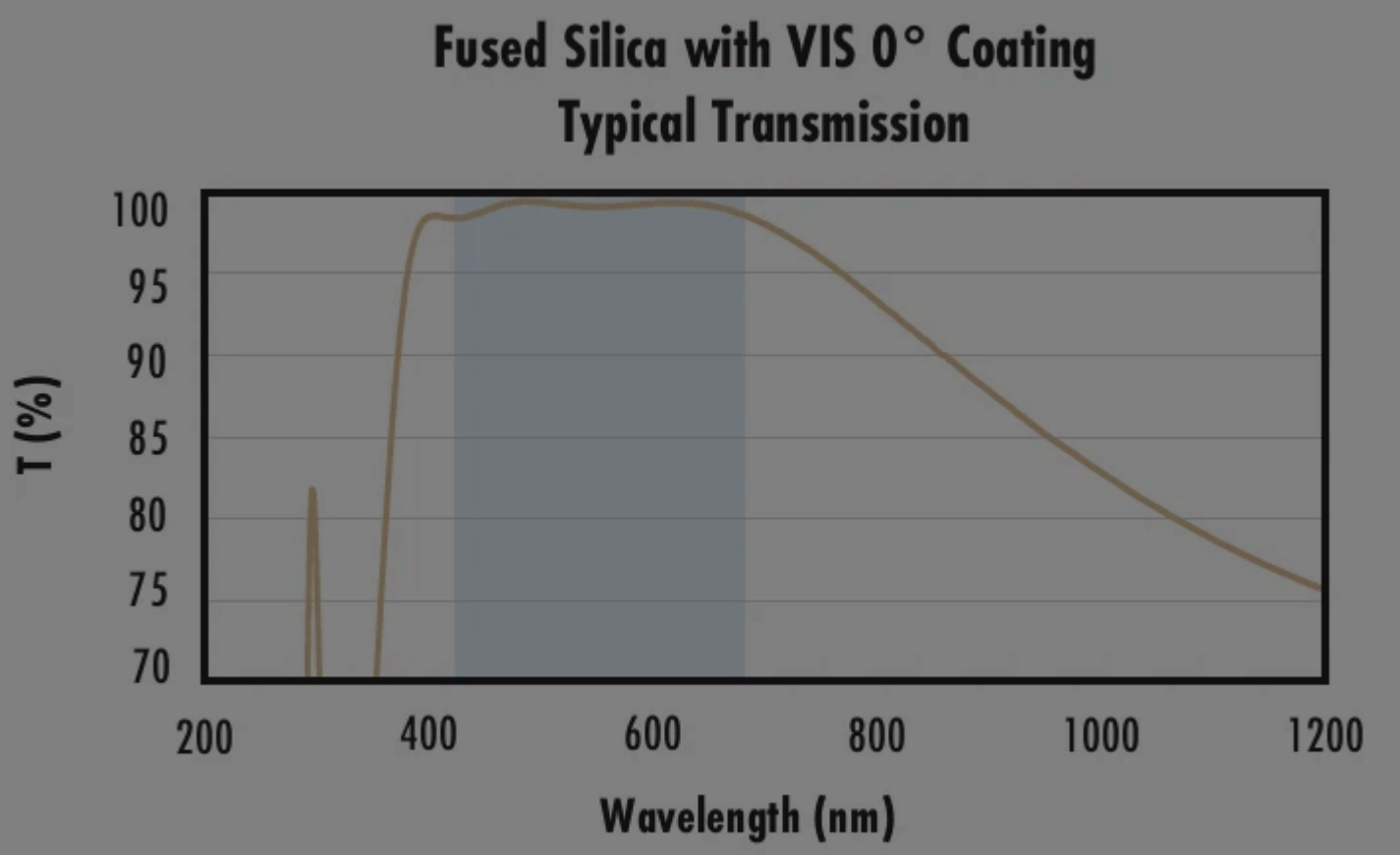

Typical transmission of a 3mm thick fused silica wind
with VIS 0° (425-675nm) coating at 0° AOI.

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

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

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reference only.

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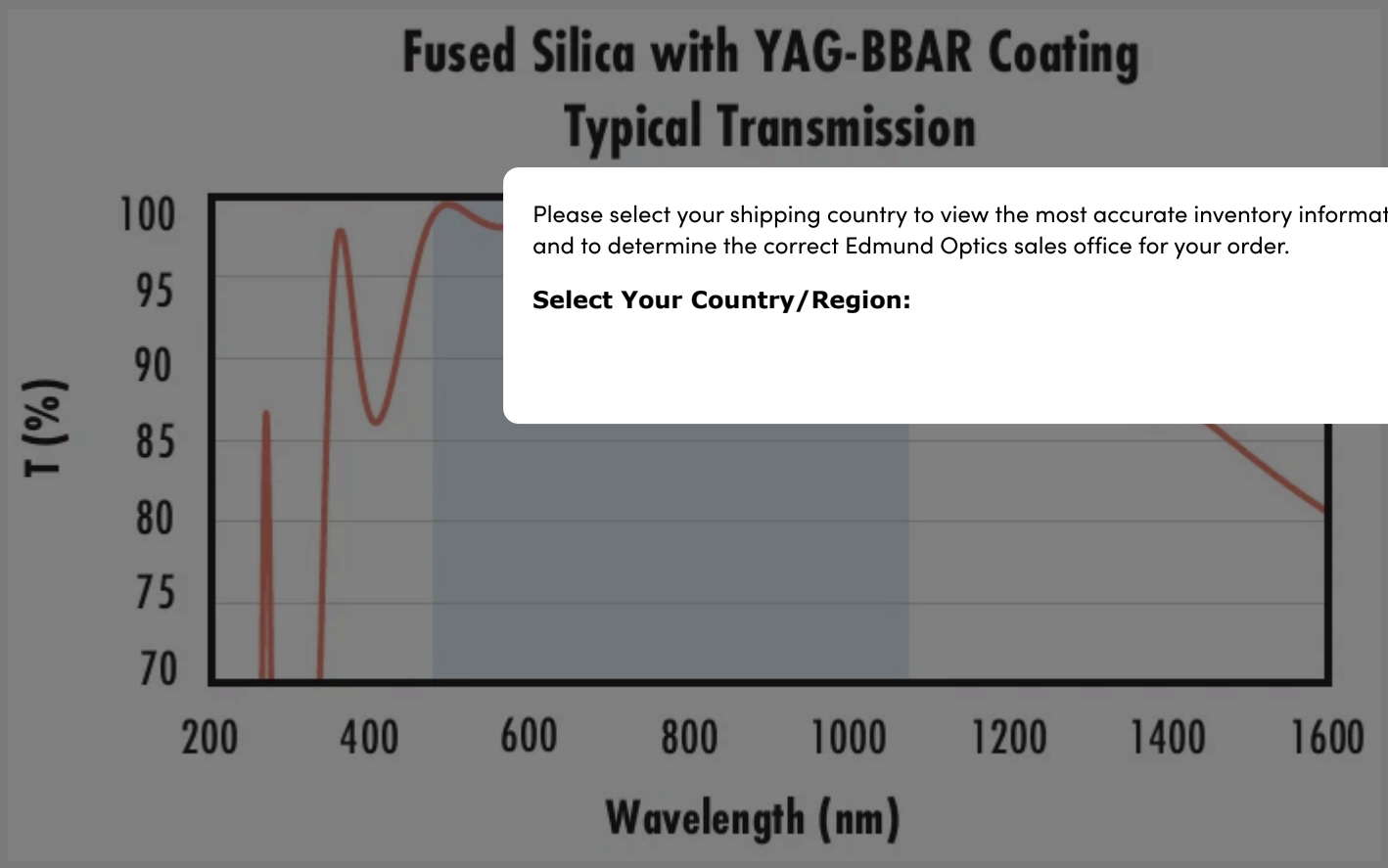

ical transmission of a 3mm thick fused silica wind
with YAG-BBAR (500-1100nm) coating at 0° AOI.

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

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reference only.

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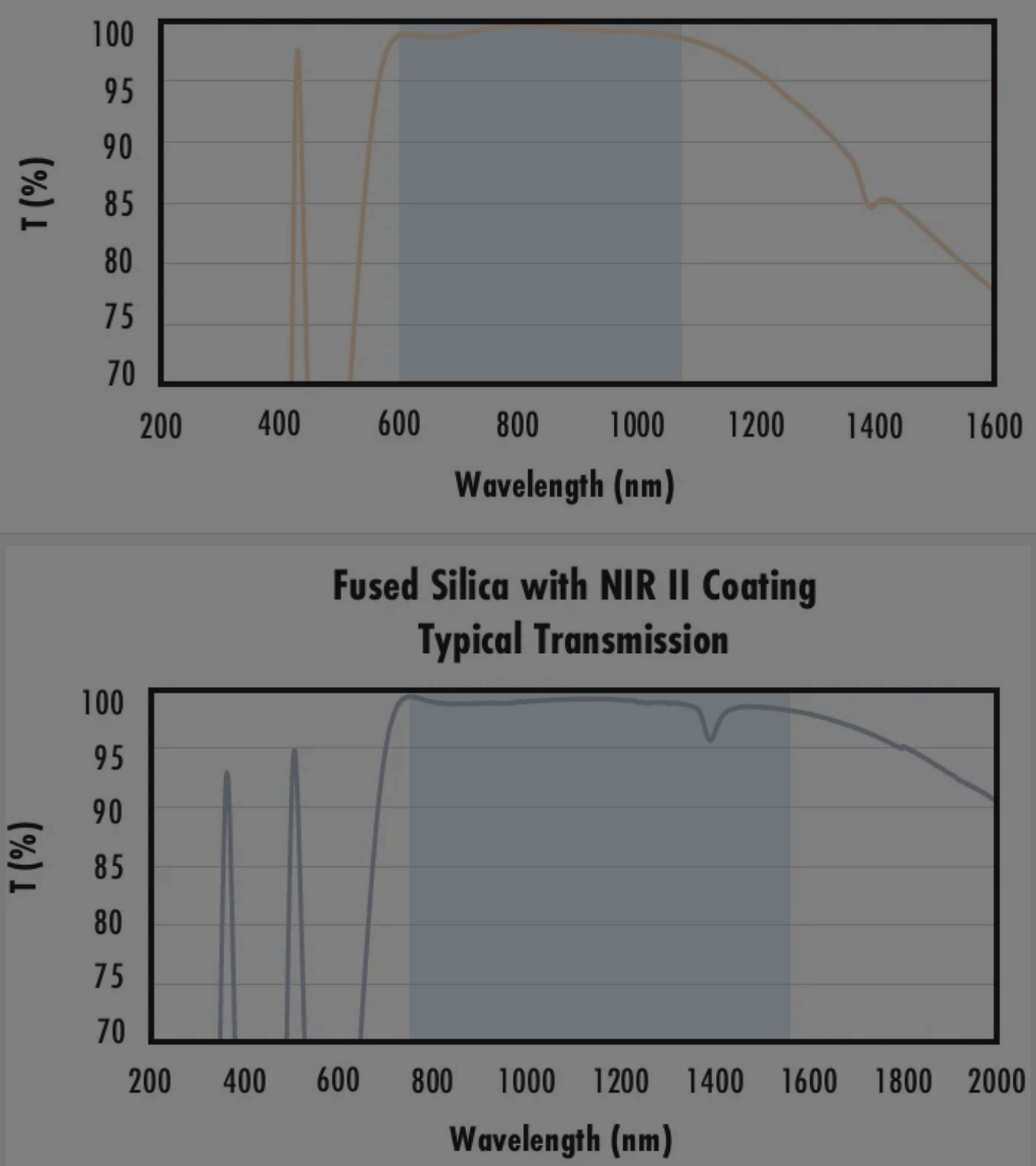

Typical transmission of a 3mm thick fused silica wind
with NIR I (600 - 1050nm) coating at 0° AOI.

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 3mm thick fused silica wind
with NIR II (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

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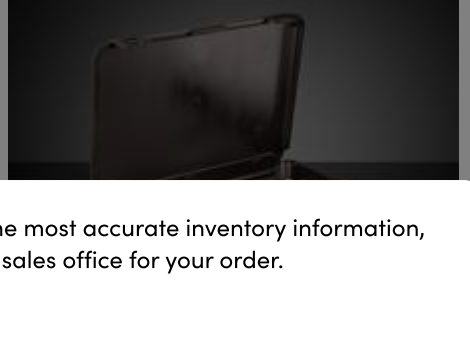

UV Fused Silica Aspheric Lenses

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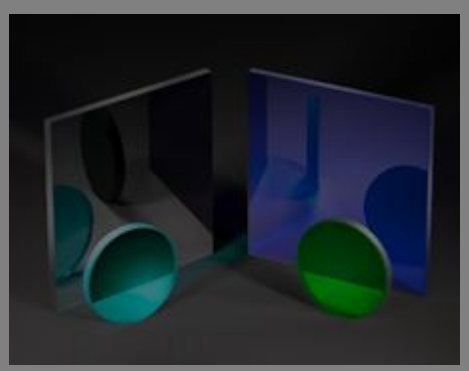
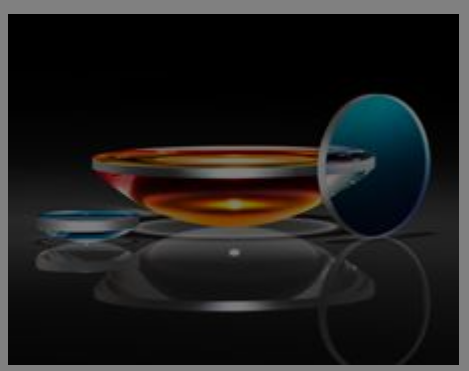
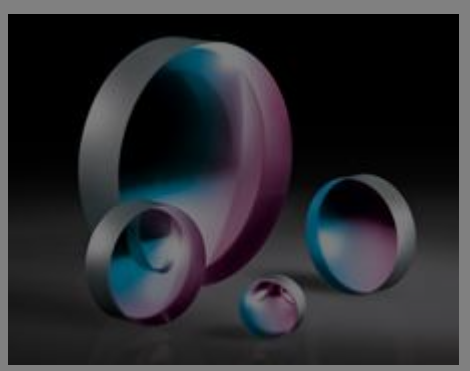


#46-096 - Hoya U340 (UV) 12mm Dia., Colored Glass Bandpass Filter
€48,25
Qty



#46-260 - 9mm Dia. x 27mm FL UV-AR Coated, UV Plano-Convex Lens
€151,00
Qty



#46-313 - 9.0mm Dia. x -27 FL, UV-AR Coated, UV Plano-Concave Lens
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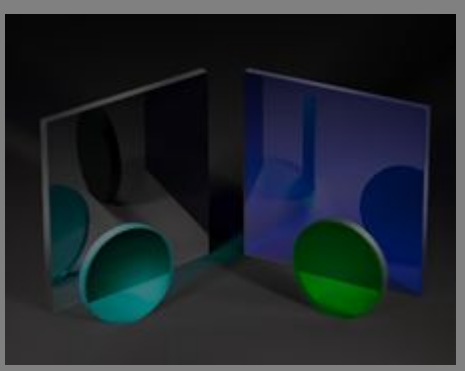
Qty



#46-437 - Hoya U330 (UV) 25.4mm Dia., Colored Glass Bandpass Filter
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