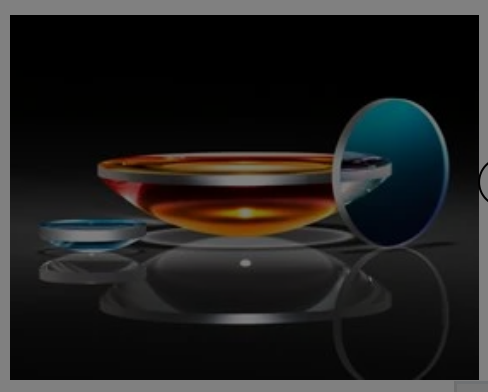
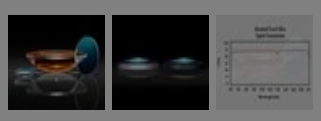
TECHSPEC® 30mm ...o-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock #84-282 **20+ In Stock**

Other Coating Options

- 1 +

€184,00

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Volume Pricing	
Qty 1-5	**€184,00** each
Qty 6-25	**€147,00** each
Qty 26-49	**€138,00** each
Need More?	**Request Quote**

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:stp
- PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet

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General

Type:	Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):	30.00	**Centering (arcmin):**	<1
Center Thickness CT (mm):	7.00 ±0.10	**Edge Thickness ET (mm):**	1.41
Clear Aperture CA (mm):	29	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	50.00 @ 587.6nm	**Back Focal Length BFL (mm):**	45.2
Coating:	Uncoated	**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):	22.92	**f/#:**	1.67
Numerical Aperture NA:	0.30	**Wavelength Range (nm):**	200 - 2200

Regulatory Compliance

RoHS 2015:	**Compliant**	**Reach 219:**	**Compliant**
Certificate of Conformance:	**View**		

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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.**

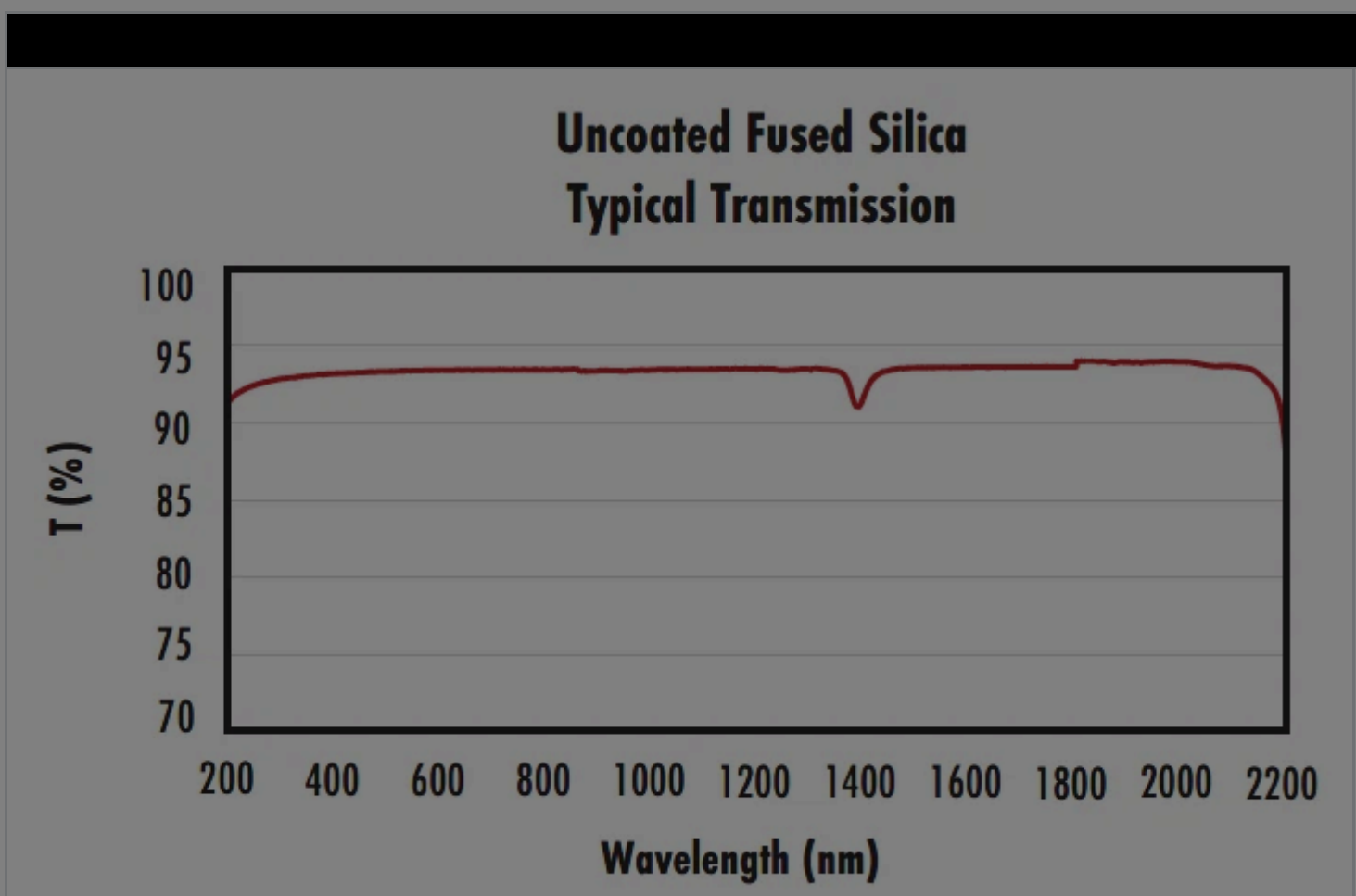
Product Details

- UV-Grade Fused Silica
- Wavelength Range of 200nm to 2.2µm
- Variety of Coating Options Available
- Various Coating Options: **MgF_2**, **UV-AR**, **UV-VIS**, **VIS-EXT**, **VIS-NIR**, **VIS 0°**, **YAG-BBAR**, **NIR I**, and **NIR II**

TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses Uncoated 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 Uncoated feature industry leading diameter and centration specifications, making them ideal for integration into demanding imaging and targeting applications.

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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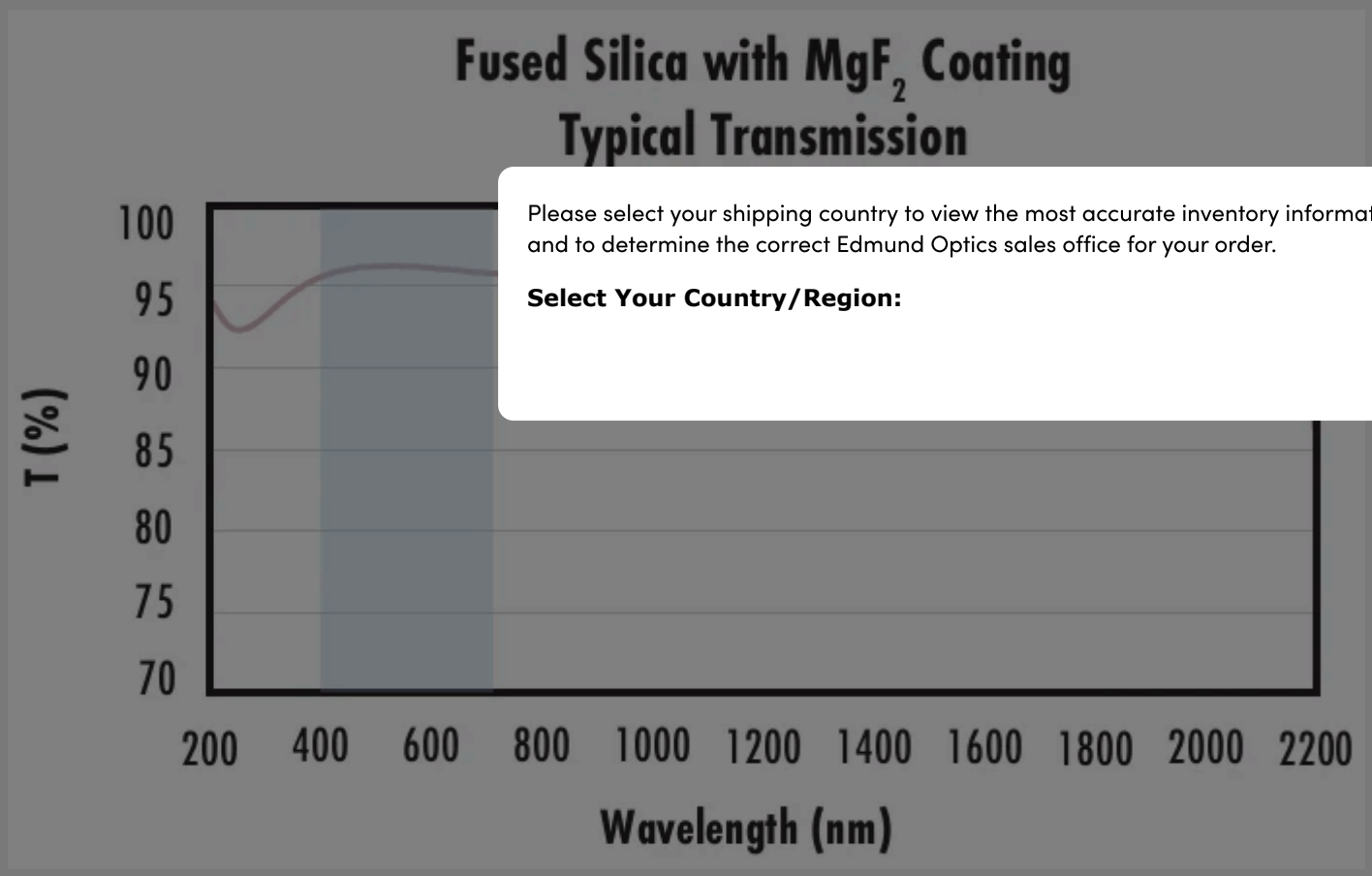

ical transmission of a 3mm thick fused silica wind
with MgF2 (400-700nm) coating at 0° AOI.

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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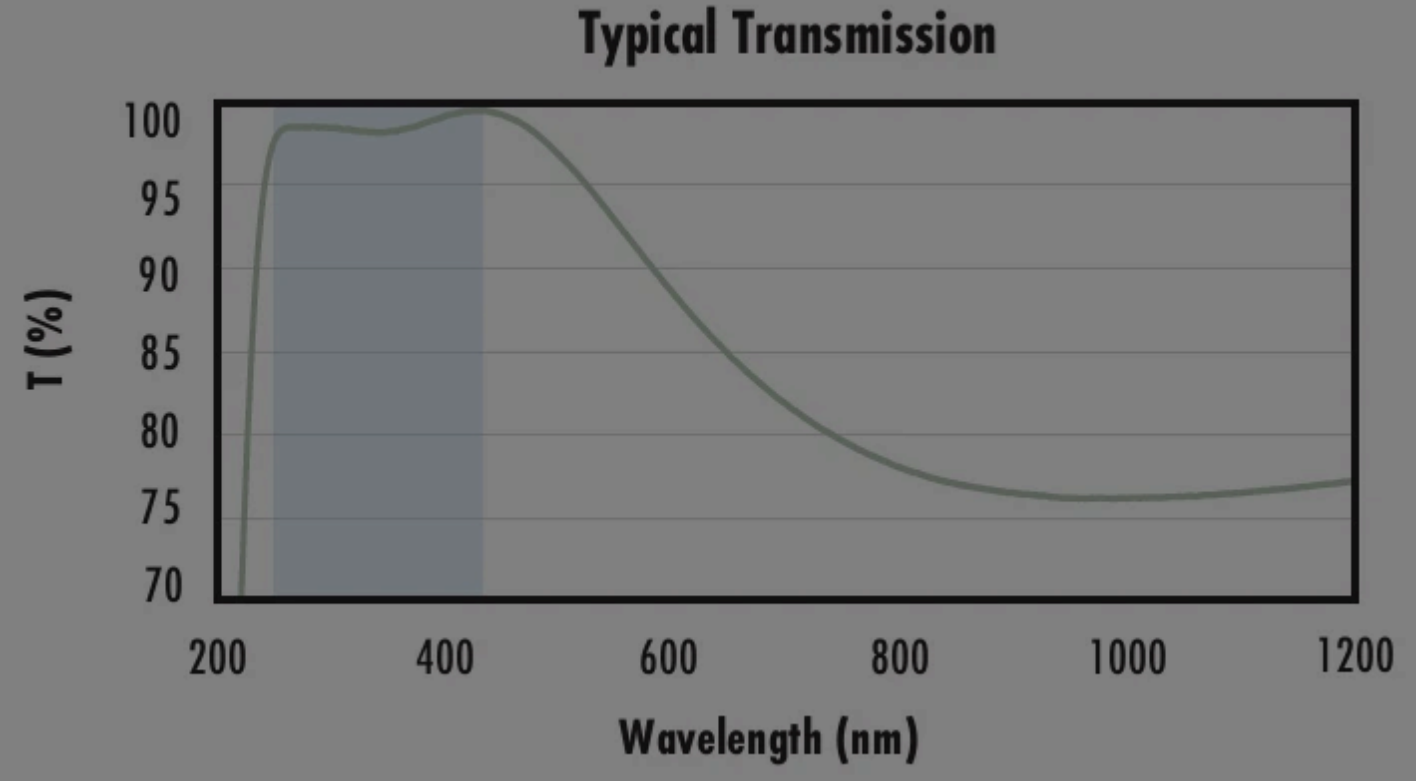

Typical transmission of a 3mm thick fused silica wind
with UV-AR (250-425nm) coating at 0° AOI.

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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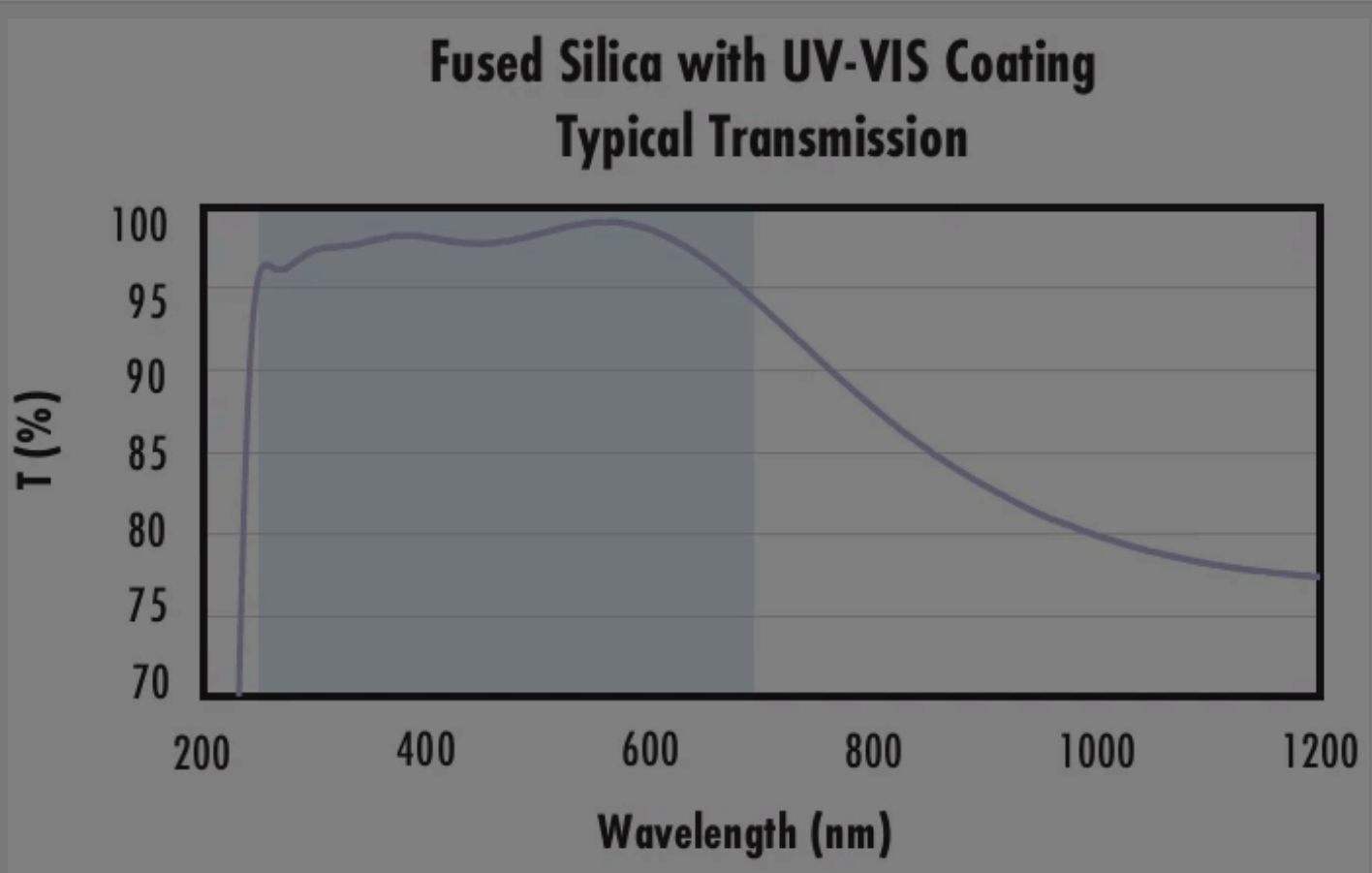

Typical transmission of a 3mm thick fused silica wind
with UV-VIS (250-700nm) coating at 0° AOI.

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

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

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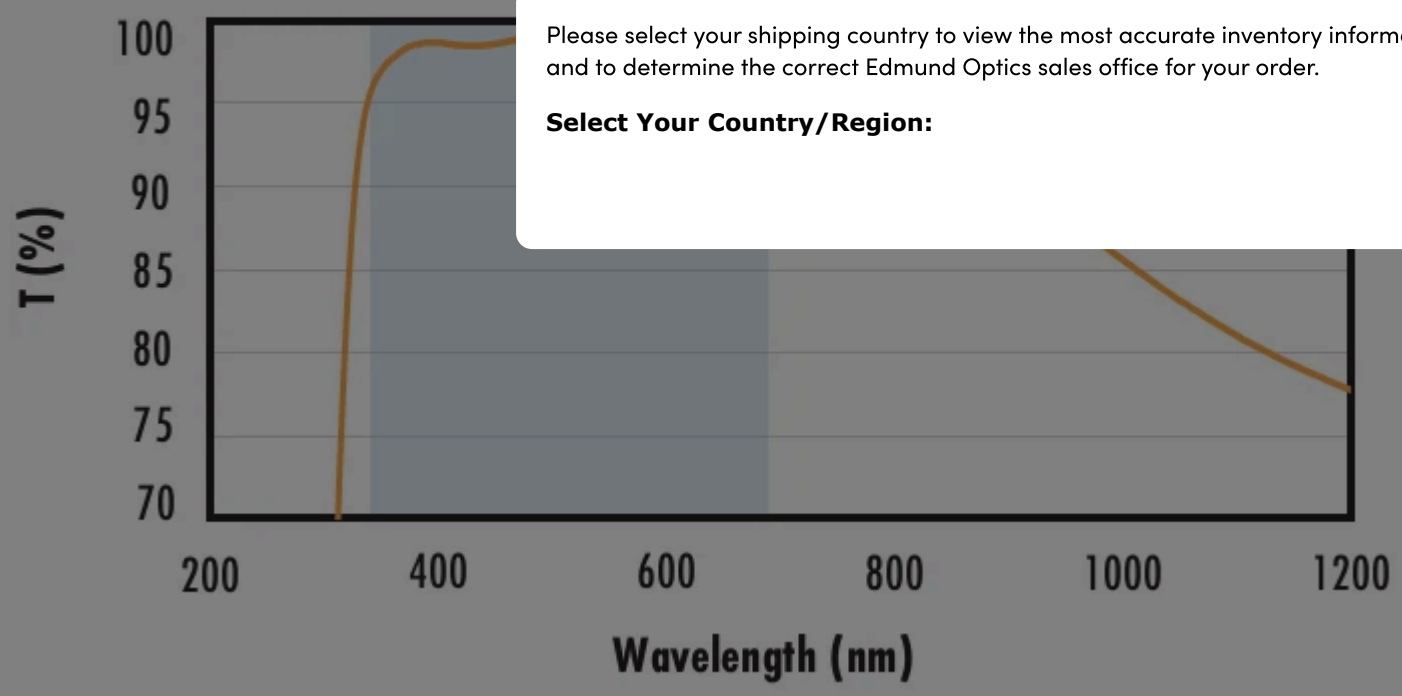

ical transmission of a 3mm thick fused silica wind
with VIS-EXT (350-700nm) coating at 0° AOI.

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

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

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

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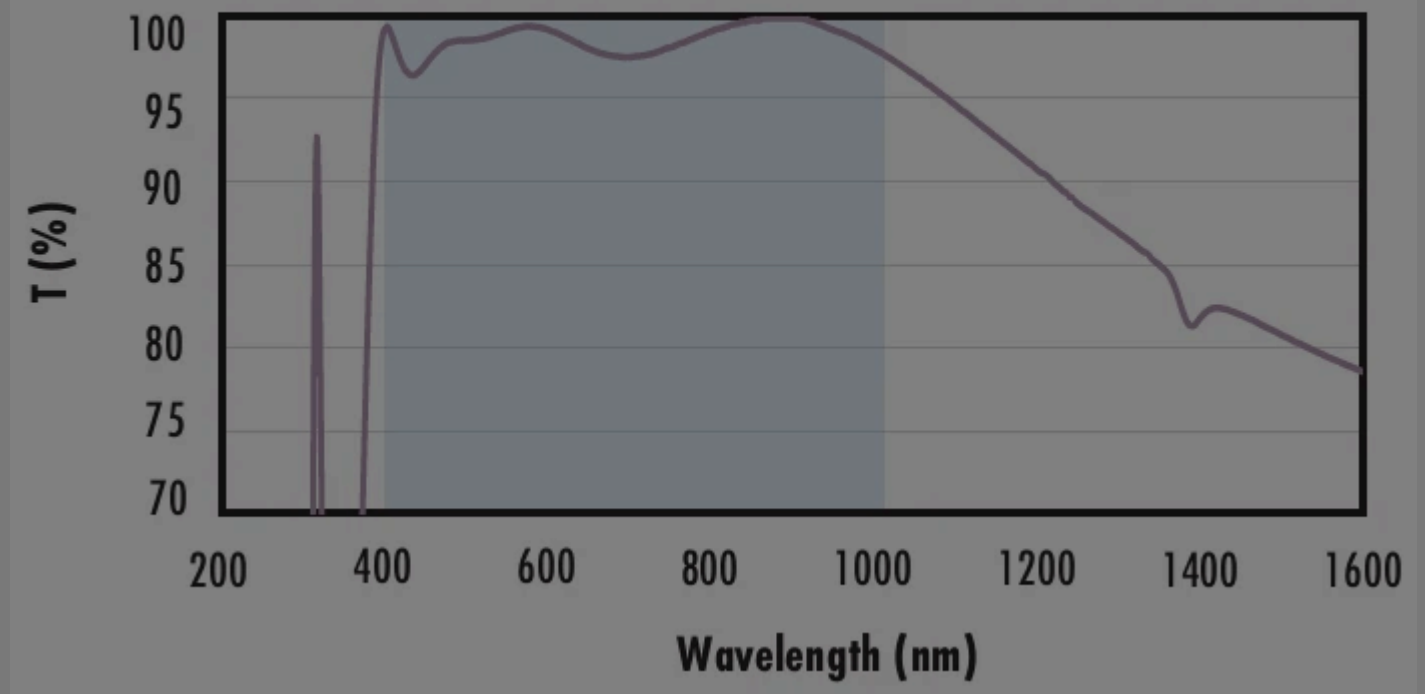

Typical transmission of a 3mm thick fused silica wind
with VIS-NIR (400-1000nm) coating at 0° AOI.

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

Data outside this range is not guaranteed and is fo
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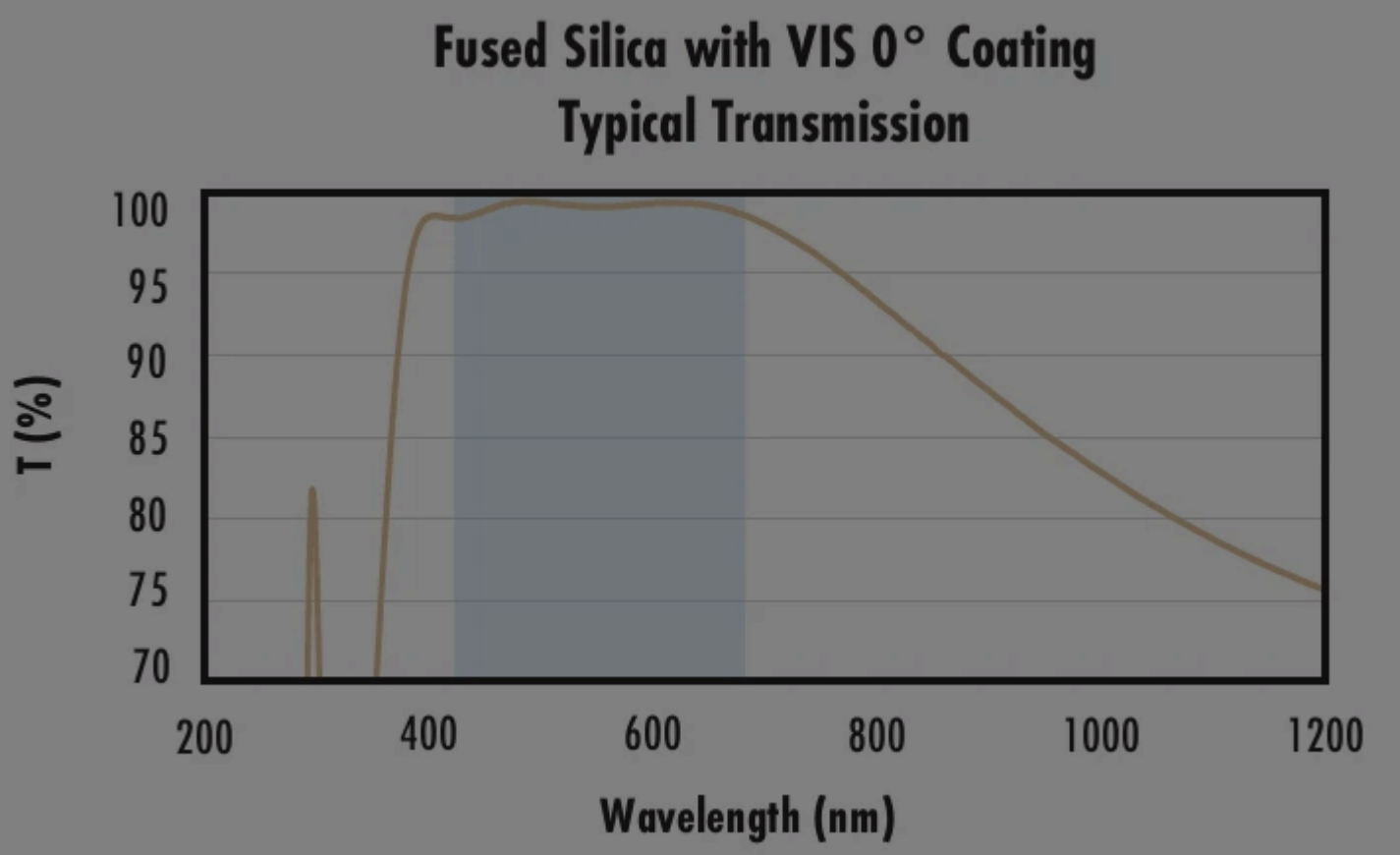

Typical transmission of a 3mm thick fused silica wind
with VIS 0° (425-675nm) coating at 0° AOI.

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

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

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

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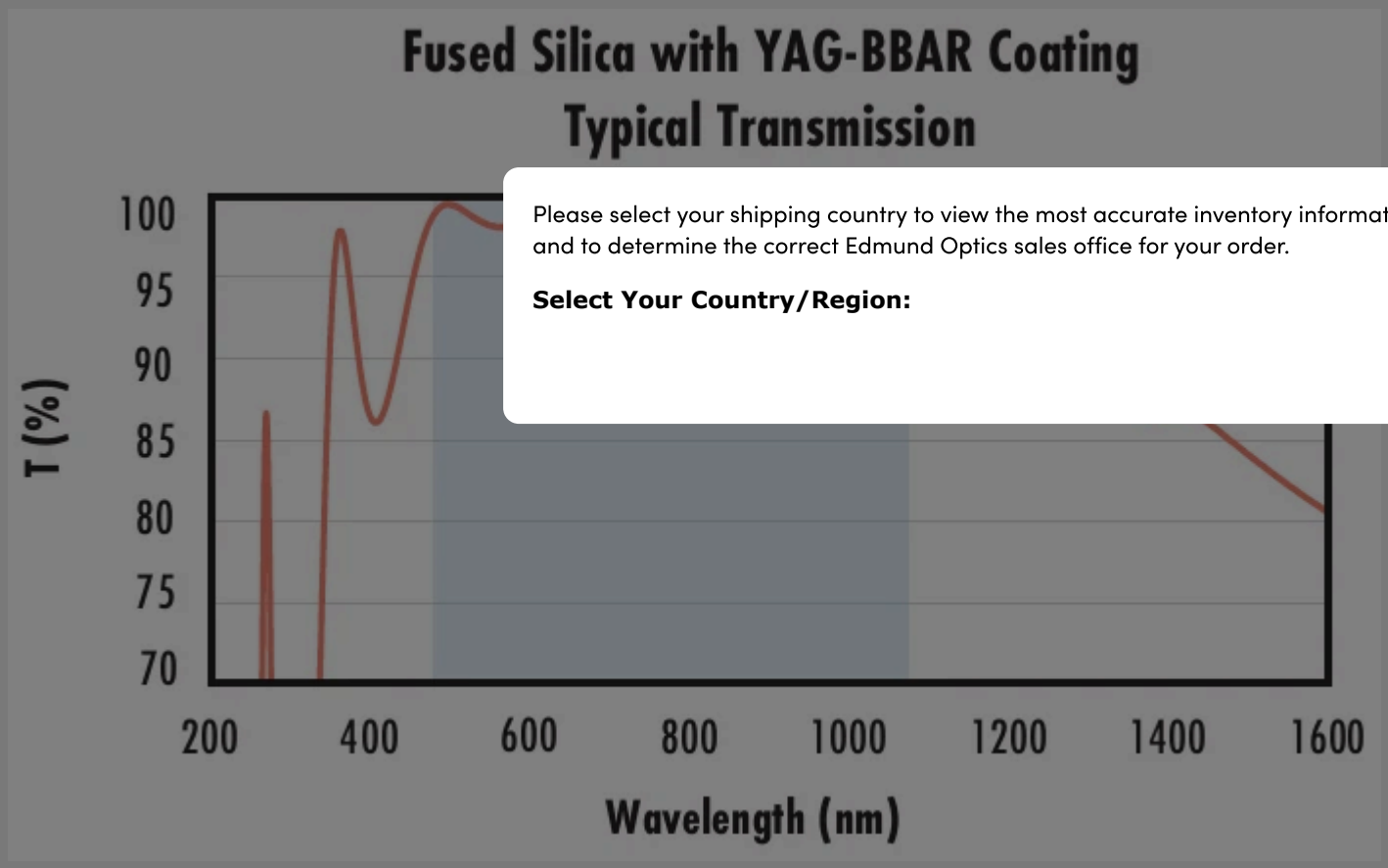

ical transmission of a 3mm thick fused silica wind
with YAG-BBAR (500-1100nm) coating at 0° AOI.

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

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

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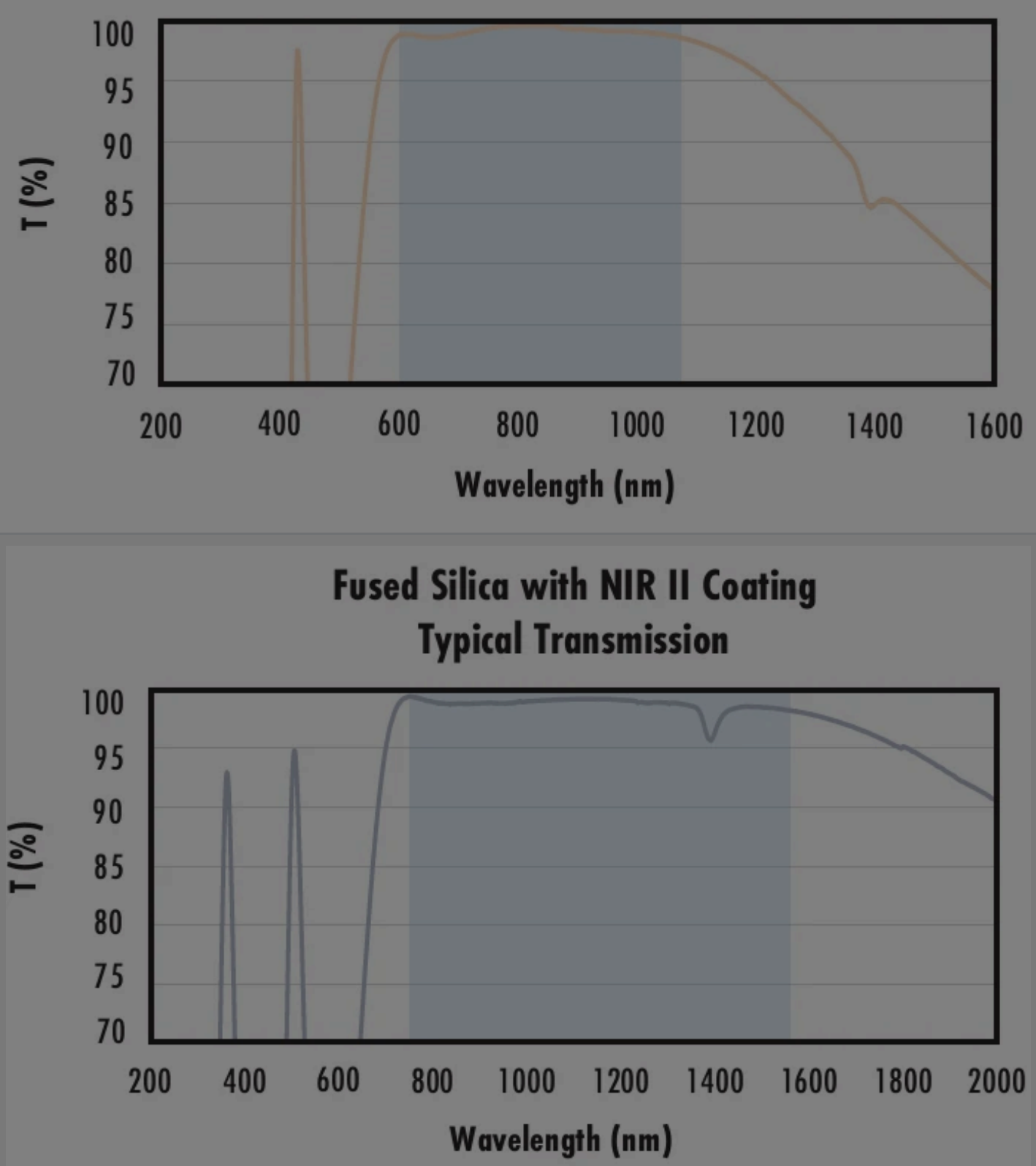

Typical transmission of a 3mm thick fused silica wind
with NIR I (600 - 1050nm) coating at 0° AOI.

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

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

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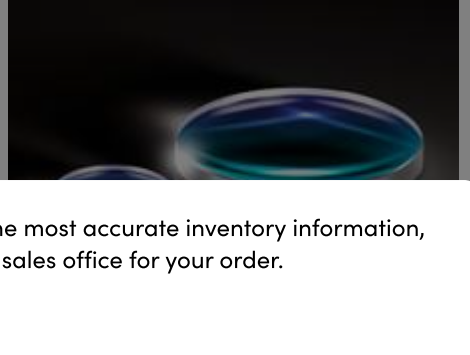
Related Products

UV Fused Silica Aspheric Lenses



UV Fused Silica Plano-Concave (PCV) Lenses

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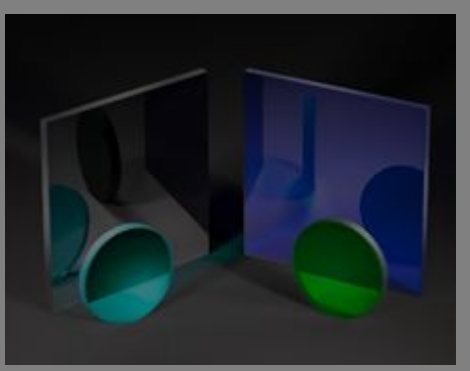
Frequently Purchased Together

#30-263 – 12mm Max. Aperture, Iris Diaphragm
€44,00
Qty

#32-478 – 25.0mm Dia. x 50.0mm FL, MgF_2 Coated, Plano-Convex Lens
€40,50
Qty

#34-193 – 40mm Dia. x 200mm FL VIS-EXT Coated, Double-Convex Lens
€79,50
Qty



#34-443 – Hoya B460 (UV-VIS) 12mm Dia., Colored Glass Bandpass Filter
€42,75
Qty

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	Title	Type	Compare	Stock Number	Price ☐	Buy
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MORE+ 	30.0mm Optic Dia., Optic Mount	Fixed		#64-564	€32,75 Request Quote	CONTACT US 1

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- ☐ Technical Tool
- ☐ Trending in Optics
- ☐ FAQ
- ☐ Glossary
- ☐ Video

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

APPLICATION NOTE
Understanding Optical Specifications

APPLICATION NOTE

APPLICATION NOTE

TECHNICAL TOOL

Lens Geometry Performance Comparison

UV vs. IR Grade Fused Silica

SAG Calculator

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