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**TECHSPEC®**

10mm Dia. x 100mm F

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Stock #63-606 **1 In Stock** [Other Coating Options](#)

1

€46<sup>,50</sup>

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Volume Pricing

Qty 1-9 €46,50 each

Qty 10-24 €41,75 each

Qty 25-99 €37,25 each

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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: Double-Convex Lens

Physical & Mechanical Properties

Diameter (mm): 10.00 +0.0/-0.025

Centering (arcmin): <1

Bevel: Protective as needed

Center Thickness CT (mm): 2.50

Center Thickness Tolerance (mm): ±0.05

Edge Thickness ET (mm): 2.26

Clear Aperture CA (mm): 9

Optical Properties

Back Focal Length BFL (mm): 99.17

Effective Focal Length EFL (mm): 100.00

Coating: VIS 0° (425-675nm)

Coating Specification: R<sub>avg</sub> ≤0.4% @ 425 - 675nm

Substrate: **N-BK7**

Surface Quality: 40-20

Power (P-V) @ 632.8nm: 1.5λ

Irregularity (P-V) @ 632.8nm: λ/4

Radius R<sub>1</sub>=-R<sub>2</sub> (mm): 102.93

f/#: 10.00

<b>Focal Length Specification Wavelength (nm):</b>	587.6	<b>Focal Length Tolerance (%):</b>	±1
<b>Numerical Aperture NA:</b>	0.05	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.</p> <p><b>Select Your Country/Region:</b></p> </div>	
<b>Damage Threshold, Reference:</b> ⓘ	5 J/cm <sup>2</sup> @ 532nm, 10ns		

## Regulatory Compliance

<b>RoHS 2015:</b>	<b>Compliant</b>	<b>Certificate of Conformance:</b>	<a href="#">View</a>
<b>Reach 235:</b>	<b>Compliant</b>		

## 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](#).

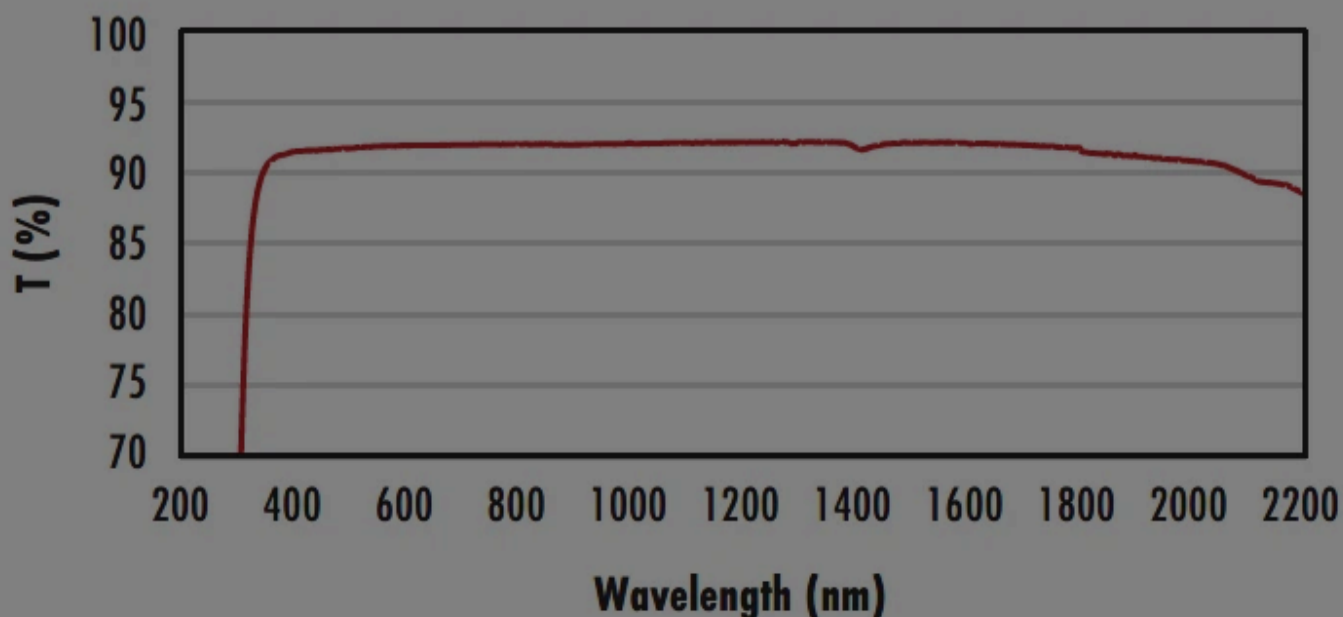
## Product Details

- AR Coated to Provide <0.4% Reflectance per Surface for 425 - 675nm
- Minimize Aberrations Including Spherical and Coma
- **UV Fused Silica DCX Lenses** Available
- Other Coating Options Available: **Uncoated**, **MgF<sub>2</sub>**, **NIR I**, **NIR II**, **VIS-EXT**, **VIS-NIR**, and **YAG-BBAR**

TECHSPEC® VIS 0° Coated Double-Convex (DCX) Lenses, also referred to as bi-convex lenses, have two positive, symmetrical faces with equal radii on both sides. These lenses are generally recommended for finite imaging applications with a conjugate ratio (ratio between object distance and image distance) between 0.2 and 5. At a conjugate ratio of 1, aberrations such as spherical aberration, chromatic aberration, coma, and distortion are minimized or cancelled due to the symmetric lens design. TECHSPEC® VIS 0° Coated Double-Convex Lenses are available in a variety of substrates and coating options for the visible and NIR spectra.

## Technical Information

### Uncoated N-BK7 Typical Transmission



Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.

[Click Here to Download Data](#)

### N-BK7 with MgF<sub>2</sub> Coating Typical Transmission



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Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (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](#)

### N-BK7 with VIS-EXT Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.

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

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

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

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### N-BK7 with VIS-NIR Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.

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

$$\begin{aligned} R_{abs} &\leq 0.25\% \text{ @ } 880\text{nm} \\ R_{avg} &\leq 1.25\% \text{ @ } 400 - 870\text{nm} \\ R_{avg} &\leq 1.25\% \text{ @ } 890 - 1000\text{nm} \end{aligned}$$

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

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### N-BK7 with VIS 0° Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 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.

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### N-BK7 with YAG-BBAR Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 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](#)

### N-BK7 with NIR I Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.

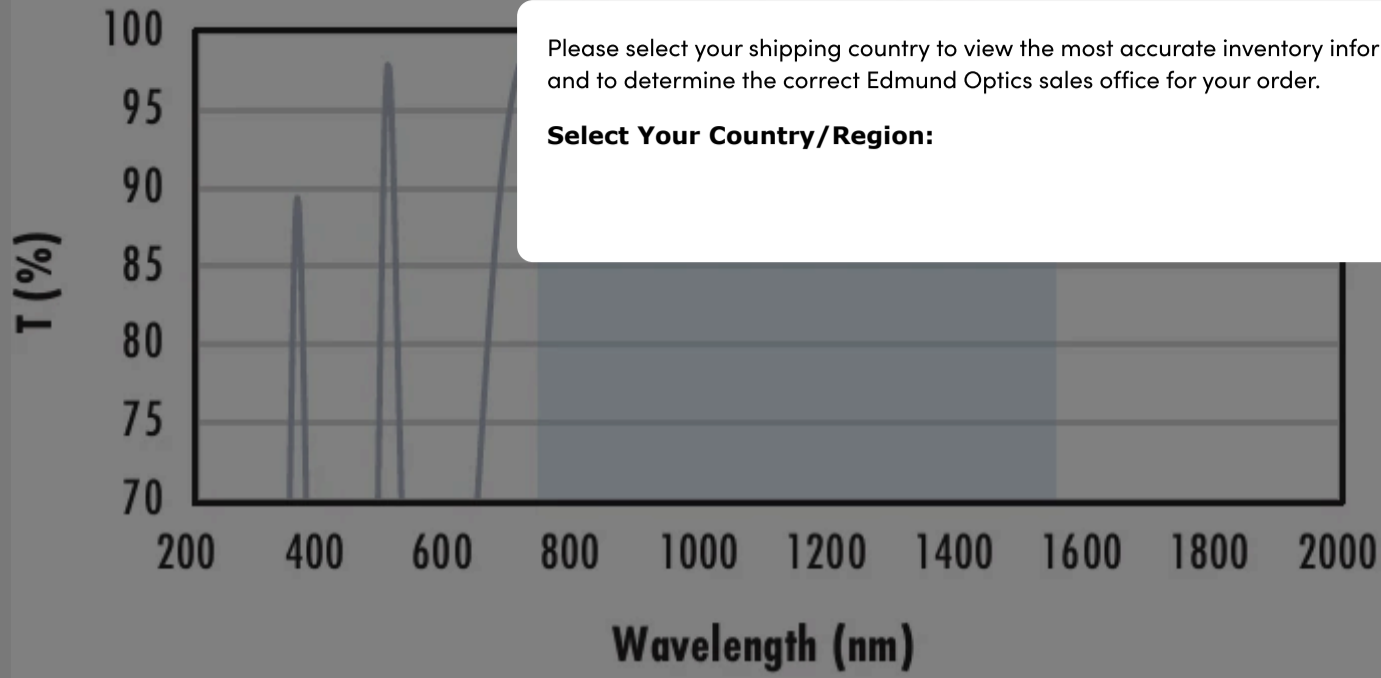
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% @ 600 - 1050nm$$

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

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## N-BK7 with NIR II Coating Typical Transmission



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Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.

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

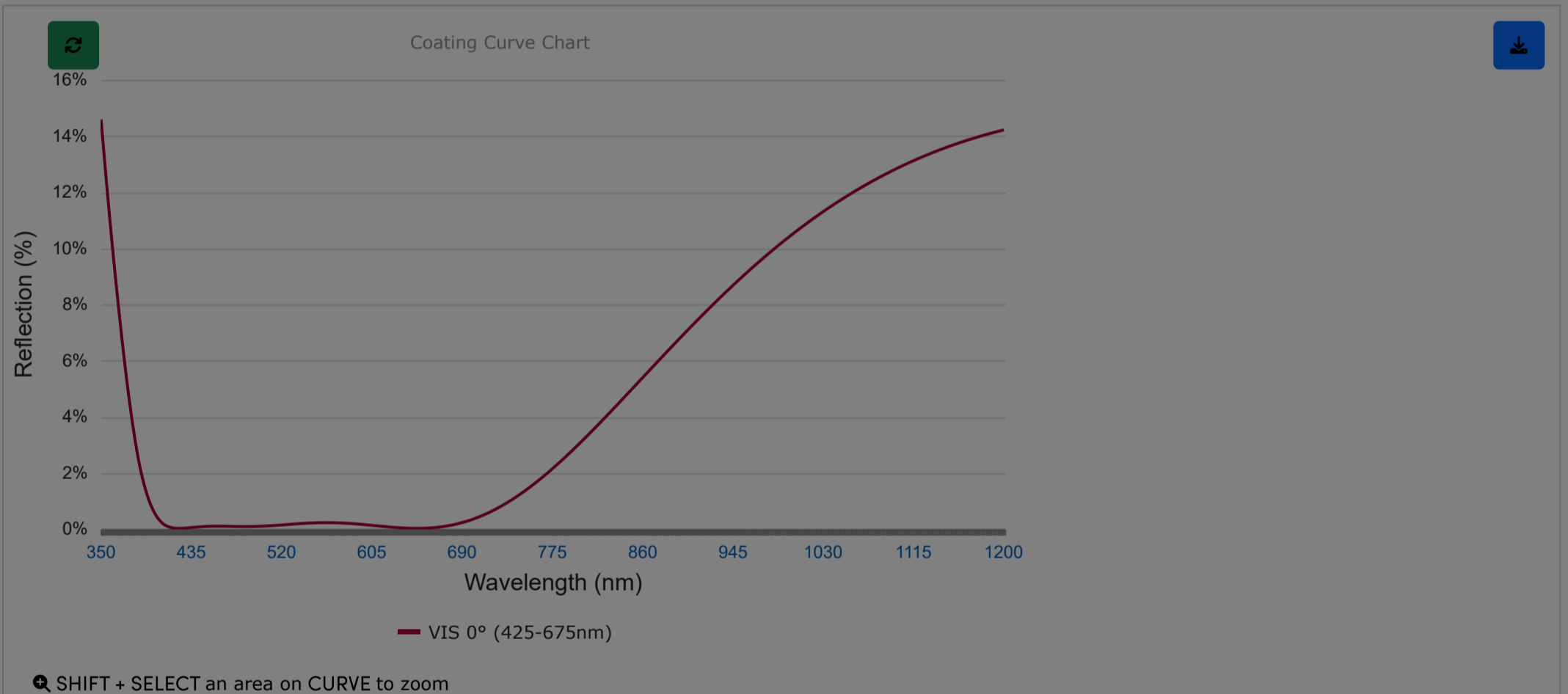
- $R_{abs} \leq 1.5\%$  @ 750 - 800nm
- $R_{abs} \leq 1.0\%$  @ 800 - 1550nm
- $R_{avg} \leq 0.7\%$  @ 750 - 1550nm

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

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## Coating Curves

VIS 0° (425-675nm)



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

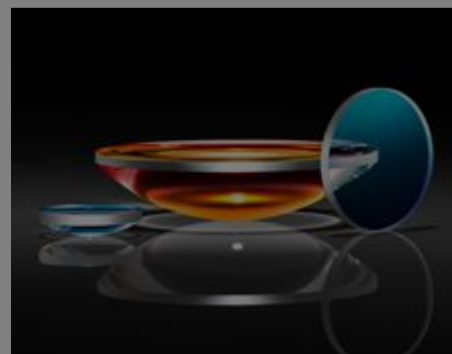
## Related Products



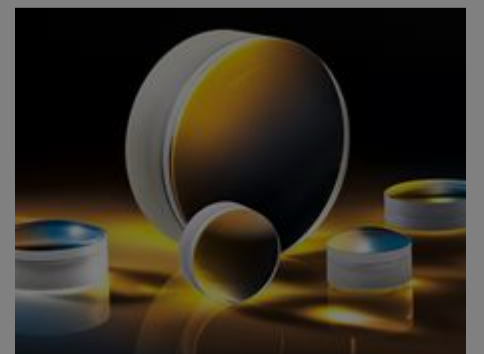
Uncoated Double-Convex (DCX) Lenses



UV Fused Silica Double-Convex (DCX) Lenses



UV Fused Silica Plano-Convex (PCX) Lenses - VIS 0° Coated



VIS 0° Coated Achromatic Lenses

## Frequently Purchased Together



#32-871 - 12mm Dia. x 72mm FL  
Uncoated, Double-Convex Lens  
€34,00

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#32-942 - 12.5mm Dia Enhanced  
Aluminum, 4- $\lambda$  Mirror  
€28,50



#43-502 - 15mm, MgF<sub>2</sub> Coated,  
Penta Prism  
€95,50



#46-724 - 25 x 35mm Protected  
Silver,  $\lambda/4$  Mirror  
€96,50

## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	10.0mm Optic Dia., Optic Mount	Fixed		#64-554	€32,75 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	10mm Inner Single Optic Mount	Fixed		#38-748	€41,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	25mm Cage 10mm Diameter Lens Mount	Fixed		#85-551	€45,75 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/>

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

## Resources

### Media Type

- Application Note
- 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

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