

TECHSPEC<sup>®</sup> 20.0mm Dia. x -100 FL, VIS-EXT Coated, Plano-Concave Lens



Stock **#26-663** 3 In Stock

-

1

+

₹3,795

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | ₹3,795 each                   |
| Qty 10-25      | ₹3,406 each                   |
| Qty 26-49      | ₹3,036 each                   |
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General

Plano-Concave Lens

Type:

Physical & Mechanical Properties

20.00 +0.0/-0.025

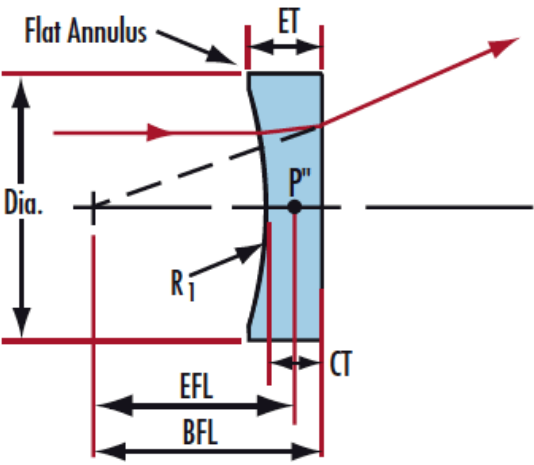
Diameter (mm):

|                                                                                            |        |
|--------------------------------------------------------------------------------------------|--------|
| Protective as needed                                                                       | Bevel: |
| Center Thickness CT (mm):<br>3.50 ±0.10                                                    |        |
| Centering (arcmin):<br><1                                                                  |        |
| Clear Aperture CA (mm):<br>19.00                                                           |        |
| Edge Thickness ET (mm):<br>4.42                                                            |        |
| Optical Properties                                                                         |        |
| Effective Focal Length EFL (mm):<br>-100.00                                                |        |
| Substrate: <input type="checkbox"/><br>N-BK7                                               |        |
| f#:<br>4.00                                                                                |        |
| Numerical Aperture NA:<br>0.13                                                             |        |
| Coating:<br>VIS-EXT (350-700nm)                                                            |        |
| Wavelength Range (nm):<br>350 - 700                                                        |        |
| Back Focal Length BFL (mm):<br>-102.88                                                     |        |
| Coating Specification:<br>R <sub>avg</sub> ≤0.4% @ 425 - 675nm                             |        |
| Focal Length Specification Wavelength (nm):<br>587.6                                       |        |
| Focal Length Tolerance (%):<br>±1                                                          |        |
| Radius R <sub>1</sub> (mm):<br>-51.68                                                      |        |
| Surface Quality:<br>40-20                                                                  |        |
| Damage Threshold, By Design: <input type="checkbox"/><br>5 J/cm <sup>2</sup> @ 532nm, 10ns |        |
| Power (P-V) @ 632.8nm:<br>1.5λ                                                             |        |
| Irregularity (P-V) @ 632.8nm:<br>λ/4                                                       |        |
| Regulatory Compliance                                                                      |        |
| RoHS 2015:<br>Compliant                                                                    |        |
| Certificate of Conformance:<br>View                                                        |        |
| Reach 235:<br>Compliant                                                                    |        |
| Country of Origin:<br>China                                                                |        |
| Imported By:<br>Edmund Optics India Private Limited                                        |        |

## Product Details

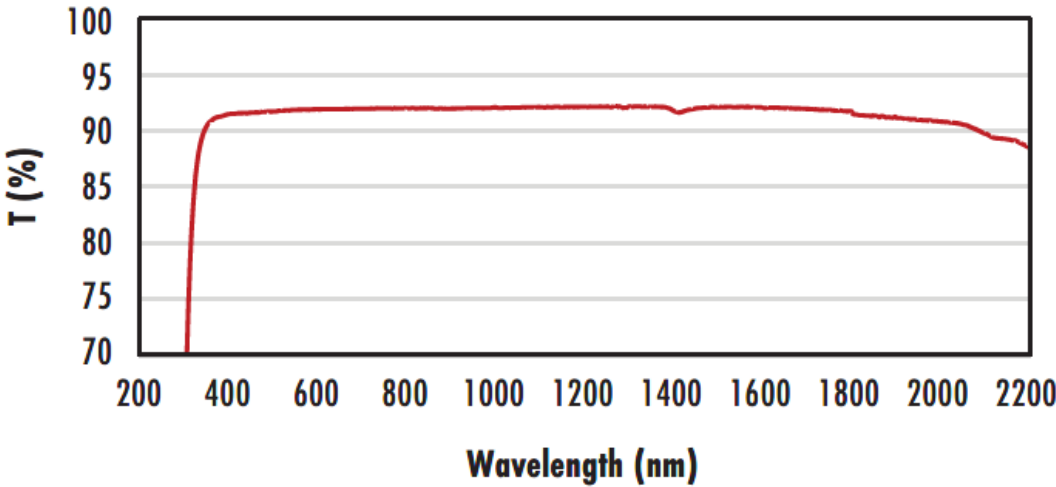
- AR Coated to Provide <0.5% Reflectance per Surface for 350 - 700nm
  - Designed for 0° Angle of Incidence
  - Negative Focal Lengths for Beam Expansion or Light Projection Applications
  - Additional AR Coating Options Available: [Uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)
- TECHSPEC® VIS-EXT Coated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the output side of the lens causing this lens to have a negative focal length. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Plano-Concave (PCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes. TECHSPEC® VIS-EXT Coated Plano-Concave (PCV) Lenses offer optimal performance in the 350nm to 700nm range. These lenses are also available [Uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#) coating options.

## Technical Information



N-BK7

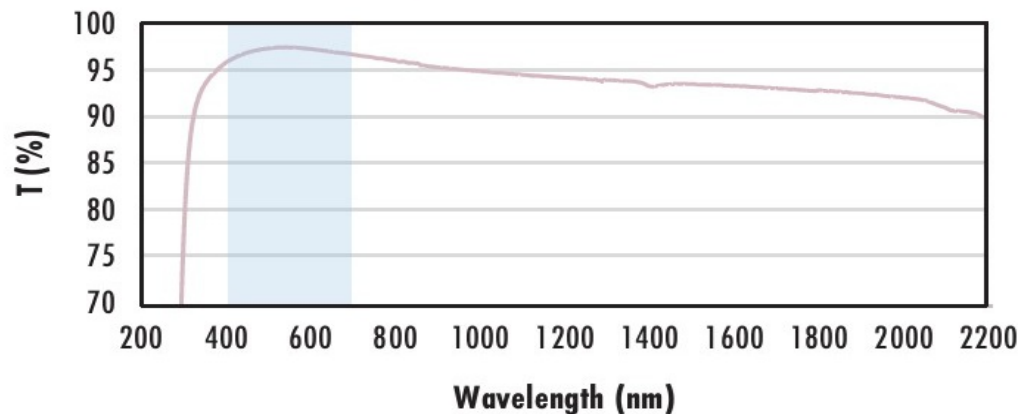
Uncoated N-BK7 Typical Transmission



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



Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.

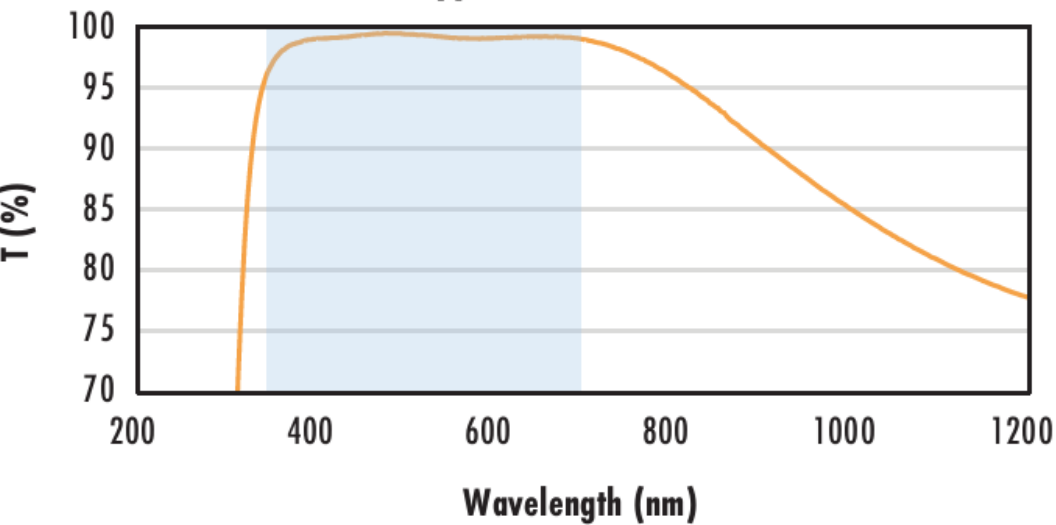
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 1.75\% \text{ @ } 400 - 700\text{nm (N-BK7)}$$

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.

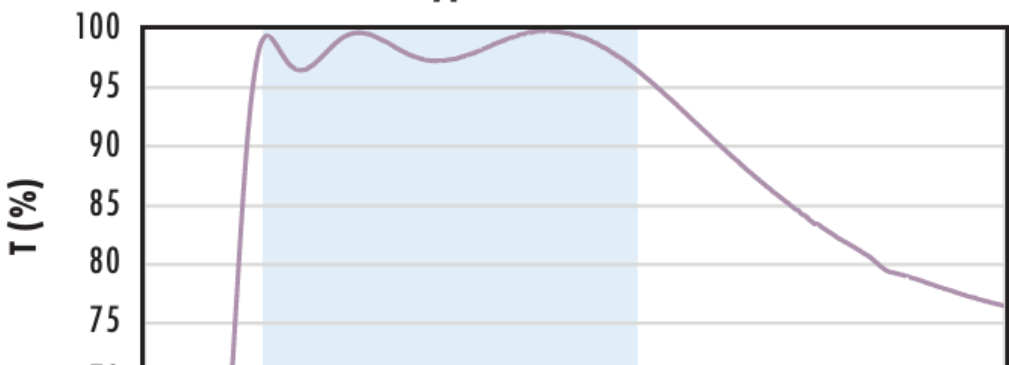
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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N-BK7 with VIS-NIR Coating  
Typical Transmission



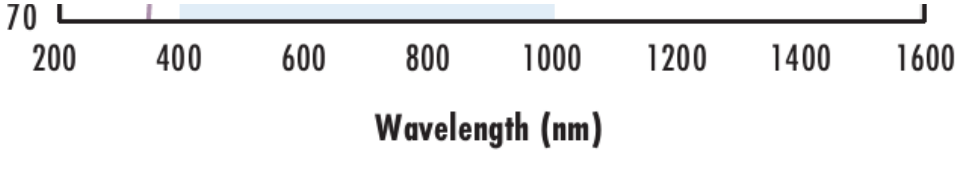
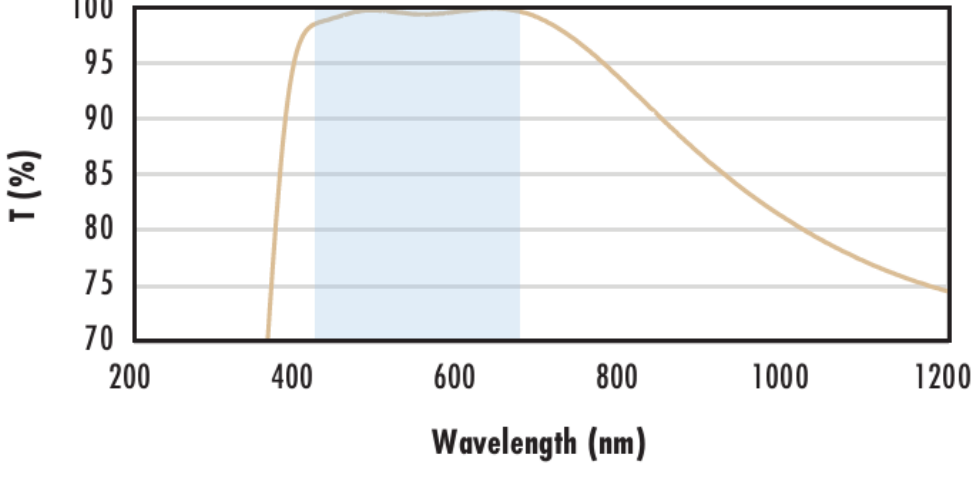
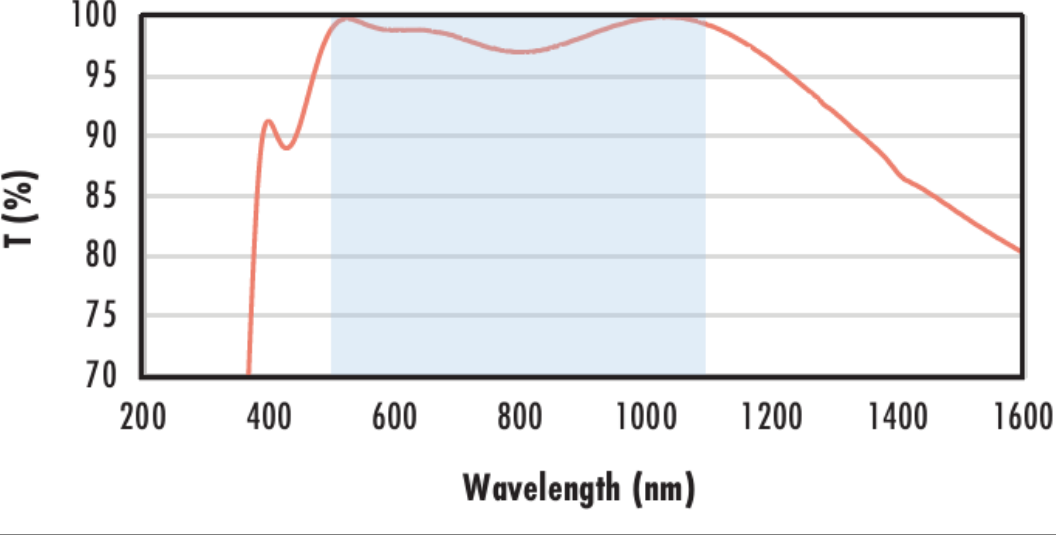
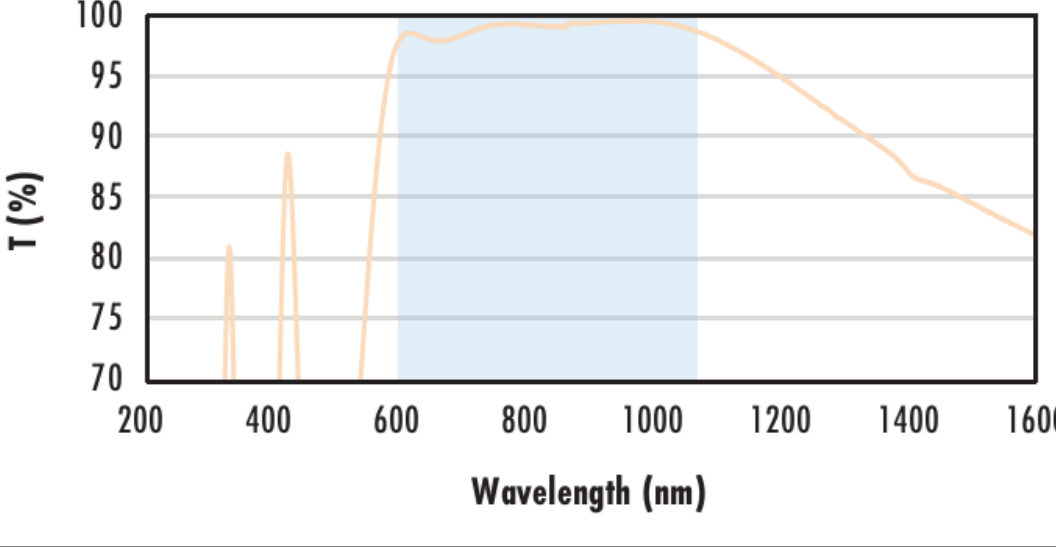
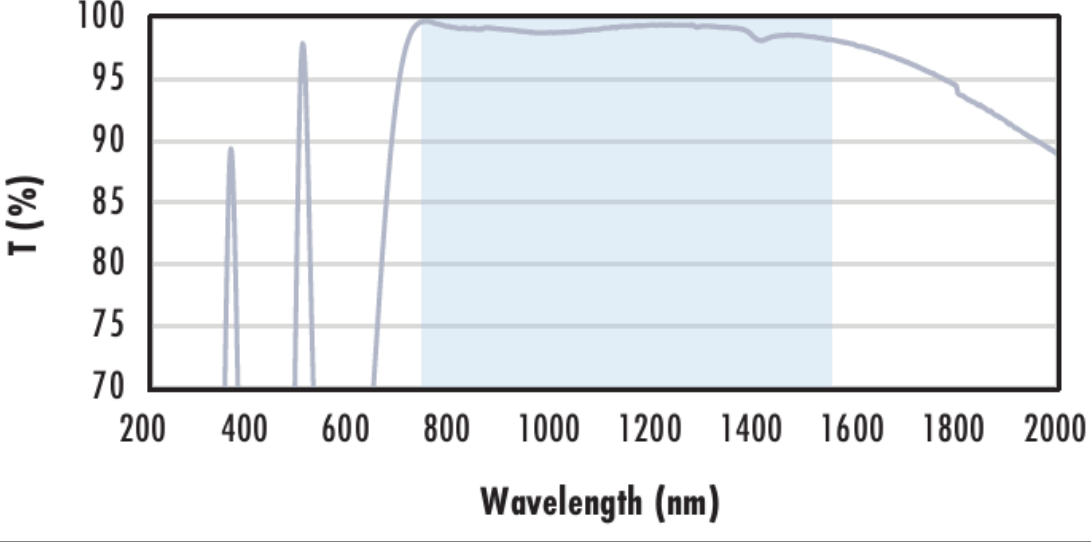
Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.

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.

[Click Here to Download Data](#)

|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p data-bbox="596 261 974 350"><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1339 394 1843 445">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1339 457 1850 507">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 519 1711 543"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1339 555 1839 605">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 617 1711 641"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                        |
| <p data-bbox="569 857 1037 946"><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1339 985 1843 1035">Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1339 1047 1850 1098">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1493 1110 1688 1133"><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p> <p data-bbox="1493 1136 1694 1160"><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p> <p data-bbox="1472 1163 1713 1187"><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p data-bbox="1339 1199 1839 1249">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1261 1711 1285"><a href="#">Click Here to Download Data</a></p>            |
| <p data-bbox="617 1484 1008 1573"><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1339 1647 1843 1697">Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p data-bbox="1339 1709 1850 1760">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1472 1771 1713 1795"><math>R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}</math></p> <p data-bbox="1339 1807 1839 1857">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1869 1711 1893"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                           |
| <p data-bbox="606 2133 1016 2223"><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1339 2255 1843 2306">Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p data-bbox="1339 2318 1850 2368">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1474 2380 1703 2404"><math>R_{abs} \leq 1.5\% @ 750 - 800\text{nm}</math></p> <p data-bbox="1474 2407 1709 2430"><math>R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}</math></p> <p data-bbox="1474 2433 1711 2457"><math>R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}</math></p> <p data-bbox="1339 2490 1839 2540">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2552 1711 2576"><a href="#">Click Here to Download Data</a></p> |

# Custom

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](#).

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