Fiberguide’s patented RARe Motheye fiber technology enhances fiber transmission performance and significantly increases the damage threshold for your application over a large wavelength range. RARe Motheye’s anti-reflective technology consists of nano-structures on the surfaces of fiber end faces that enables fibers to transmit more light. Perfect for any application that requires high transmission from your fiber assemblies.

Compared to standard anti-reflective (AR) coatings, RARe Motheye results in a higher damage threshold, which translates to increased durability for your application.

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anti-Reflection Type</strong></td>
<td>Randomized Nanosurface</td>
</tr>
<tr>
<td><strong>Available Wavelength range</strong></td>
<td>355nm-1550nm</td>
</tr>
<tr>
<td><strong>Fiber Sizes</strong></td>
<td>3um up to 2mm core</td>
</tr>
<tr>
<td><strong>Reflectance</strong></td>
<td>0.5% reflectivity from 460nm to 1550nm across 1090nm</td>
</tr>
<tr>
<td><strong>Angle of Incidence</strong></td>
<td>0-60 degrees</td>
</tr>
<tr>
<td><strong>Laser Damage Threshold</strong></td>
<td>59J/cm², Tested at 1064nm, 16.4ns, 20Hz, Spot Dia. 0.405mm</td>
</tr>
<tr>
<td><strong>Cleaning Protocols</strong></td>
<td>Do not directly touch surface. Clean with N₂ (dry nitrogen) or CO₂ Snow gun. Contact sales rep for additional information.</td>
</tr>
</tbody>
</table>

* Lower reflectance at specific wavelengths available upon request
Technical Data

Fiber Types:
- All Silica Optical Fiber

Buffer Types:
- Polyimide
- Nylon
- Tefzel
- Gold
- Aluminum
- Acrylate

Assembly Types:
- Single Fiber Assemblies
- Custom Bundle Assemblies
- 1D Arrays

Connector Types:
- 905 SMA
- 906 SMA
- FC/PC
- FC/UPC
- FC/APC
- ST/PC
- ST/UPC
- ST/APC
- Cleaved Ends
- Polished Ends
- Round 2.5mm Ferrule
- FD-80 High Power Connector
- 905 High Power Connector
- 1D Arrays
- Custom Connectors

TYPICAL APPLICATIONS:

Life Sciences:
- Bioanalytical Instrumentation
- Flow Cytometry
- Gene Sequencing
- Microscopy
- Spectroscopy
- Medical Lasers

High Power Laser Deliver:
- Laser Cutting
- Laser Cladding
- Laser Welding
- Laser Marking
- Laser Engraving

Digital Projection

Aerospace

Metrology