**Optran® Plus UV, Optran® Plus WF**

**High NA pure silica / silica core fiber**

Armadillo®’s Optran® Plus is the highest NA pure fused silica core fiber available with NA’s of 0.28 and 0.30. Ideal for a broad range of applications, from spectroscopy to sensing. Armadillo®’s innovative Optran® Plus fibers exhibit exceptional spectral transmission from 190 to 2400 nm with high coupling efficiency. We offer a wide range of standard core sizes and cladding materials, as well as custom fibers to meet your specifications.

**Advantages**

- High laser damage resistance
- Specialty coatings available for high temperatures, high vacuum and harsh chemicals
- Biocompatible materials
- RoHS compliant
- Step-index profile
- Pure fused silica core
- Sterilizable by ETO and other methods
- Manufactured at ISO 9001 compliant facility

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**Technical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Optran® Plus UV: 190 – 1200 nm</th>
<th>Optran® Plus WF: 300 – 2400 nm</th>
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</thead>
<tbody>
<tr>
<td>Wavelength / spectral range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Numerical aperture (NA)</td>
<td>0.28 ± 0.02 or customised</td>
<td>0.30 ± 0.02 or customised</td>
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<tr>
<td>Operating temperature</td>
<td>-190 to +350 °C</td>
<td>-40 to +150 °C</td>
</tr>
<tr>
<td>Core diameter</td>
<td>Available from 25 to 2000 µm</td>
<td></td>
</tr>
<tr>
<td>Standard core / cladding ratios</td>
<td>1 : 1.04</td>
<td>1 : 1.06</td>
</tr>
<tr>
<td>Standard prooftest</td>
<td>100 kpsi (nylon, ETFE, acrylate jacket)</td>
<td>70 kpsi (polyimide jacket)</td>
</tr>
<tr>
<td>Minimum bending radius</td>
<td>50 × cladding diameter (momentary mechanical stress)</td>
<td>150 × core diameter (during usage with high laser power)</td>
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</tbody>
</table>
Attenuation values

The following diagrams provide an overview of attenuation values relative to the wavelengths:

**Optran®Plus UV**

[Graph showing attenuation values for Optran®Plus UV]

**Optran®Plus WF**

[Graph showing attenuation values for Optran®Plus WF]

Applications

First choice for applications including spectroscopy, medical diagnostics, medical technology, laser delivery systems and many more.

Your advantages

- Over 500 Optran®UV and Optran®WF fibers in stock Non-standard diameters and NA values available
- Option of fully customised fiber production
- A complete solution for all your performance needs
- CE mark

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