Optran® UV NSS
Silica / silica fiber with hermetic carbon layer

CeramOptec® is glad to offer a new product for UVC spectral range. Improved solarization resistance and extra stability of UV NSS fiber open wide variety of applications.

**High solarization resistance**

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>Optran® UV NSS</th>
<th>190–1200 nm</th>
</tr>
</thead>
</table>

**Numerical aperture (NA)**

<table>
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<tr>
<th>Level</th>
<th>Value</th>
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<tbody>
<tr>
<td>Low</td>
<td>0.12 ± 0.02</td>
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<td>Standard</td>
<td>0.22 ± 0.02</td>
</tr>
<tr>
<td>High</td>
<td>0.28 ± 0.02</td>
</tr>
</tbody>
</table>

**Technical data**

- **Wavelength / spectral range**: Optran® UV NSS: 190–1200 nm
- **Numerical aperture (NA)**: 0.12 ± 0.02 | 0.22 ± 0.02 | 0.28 ± 0.02 or customised
- **Operating temperature**: -190 to +150 °C
- **Core diameter**: Available from 100 to 600 μm
- **Standard core / cladding ratios**: 1:1.06 | 1:1.1 | 1:1.2 | 1:1.4 or customised
- **OH content**: High (> 700 ppm)
- **Standard proof test**: 70 kpsi (polyimide jacket)
- **Minimum bending radius**: 50 x cladding diameter (short-term mechanical stress) 300 x core diameter (during use with high laser power)
- **Attenuation values**: in relation to wavelength: see p. 18

**Applications**

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