Optran® Plus UV, Optran® Plus WF
High NA pure silica / silica core fiber

CeramOptec®’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. CeramOptec®’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

Technical data

<table>
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<tr>
<th>Parameter</th>
<th>Value</th>
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| **Wavelength / spectral range** | Optran® Plus UV: 190–1200 nm  
Optran® Plus WF: 300–2400 nm |
| **Numerical aperture (NA)** | 0.28 ± 0.02  
0.30 ± 0.02 or customised |
| **Operating temperature** | -190 to +350 °C |
| **Core diameter** | Available from 25 to 2000 µm |
| **Standard core / cladding ratios** | 1:1.04  
1:1.06  
1:1.1  
1:1.125  
1:1.2  
1:1.25  
1:1.4 or customised |
| **Standard proof test** | 100 kpsi (nylon, ETFE, acrylate jacket)  
70 kpsi (polyimide jacket) |
| **Minimum bending radius** | 50 × cladding diameter (momentary mechanical stress)  
150 × core diameter (during usage with high laser power) |

Production sites

CeramOptec® GmbH Brühler Straße 30, 53119 Bonn, Germany  
CeramOptec® SIA Domes iela 1a, 5316 Livani, Latvia

US FIBEROPTEC TECHNOLOGY INC  
175 Bernal Road Suite 15  
San Jose CA 95119  
Phone: +1 408 834 7420  
Fax: +1 408 834 7430  
www.usfiberoptec.com
Attenuation values
The following diagrams provide an overview of attenuation values relative to the wavelengths:

**Op tran® Plus UV**

![Op tran® Plus UV diagram]

**Op tran® Plus WF**

![Op tran® Plus WF diagram]

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

Your advantages
- Over 500 Op tran® UV and Op tran® 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