

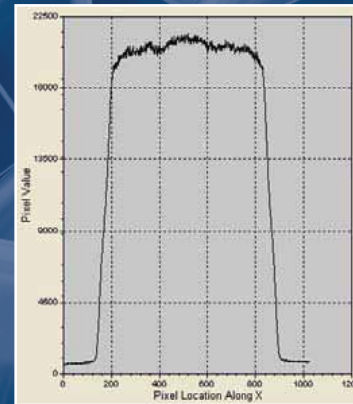
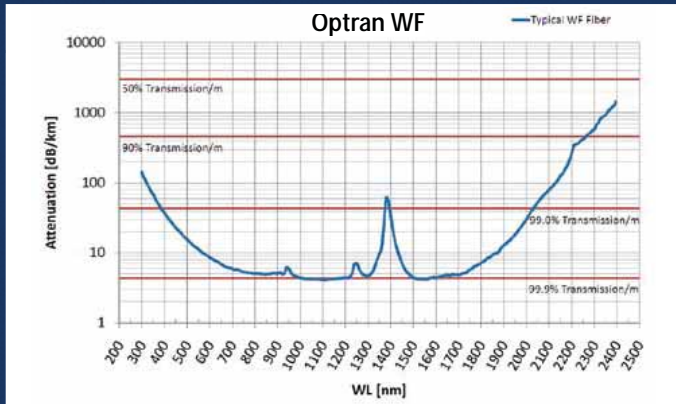
CeramOptec's non circular core silica optical fibers show the same exceptional performance and transmission as Optran UV/WF fibers with circular core geometry. With its good image scrambling and low focal ratio degradation it is ideal for astronomy applications. When used with diode lasers which give a square shaped output, the square core fibers offer greater coupling efficiencies than circular fibers. In laser applications such as surface pre-treatment, material can be processed in a more uniform fashion than is possible with a circular beam due to less overlapping. The square output beam reduces the need for beam shaping optics.

Features

- Broad UV / VIS / NIR spectral range
Optran UV: 190 – 1200 nm
Optran WF: 300 – 2400 nm
- High laser damage resistance
- Broad temperature range (-190° to +350°C)
- Different core geometries available
e.g. square, rectangular, octagonal, etc.
- Homogeneous power distribution
- Excellent image scrambling characteristics
- Superior focal ratio degradation characteristics
- Biocompatible materials
- Sterilizable by ETO and other methods
- Manufactured at GMP and ISO 9001 compliant facility

Physical Properties

- Step index profile
- Pure synthetic fused silica core
Optran WF: low OH- content < 1 ppm
- Available NA:
Low NA: 0.12 ± 0.02
Standard NA: 0.22 ± 0.02
High NA: 0.28 ± 0.02
- Standard proof test:
100 kpsi (Nylon, ETFE, Acrylate jackets)
70 kpsi (Polyimide jacket)
- Minimum bend radius:
50 x clad diameter (momentary)
150 x clad diameter (long term)



Note

Fibers with a thin cladding may not support transmission for long wavelengths. CeramOptec strives to ensure the accuracy of all information provided; however, we imply no warranties and disclaim any liability in connection with the use of this information.

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Non Circular Core fibers available

- Square Geometry (Optran WF, Nylon jacket, NA=0.22)

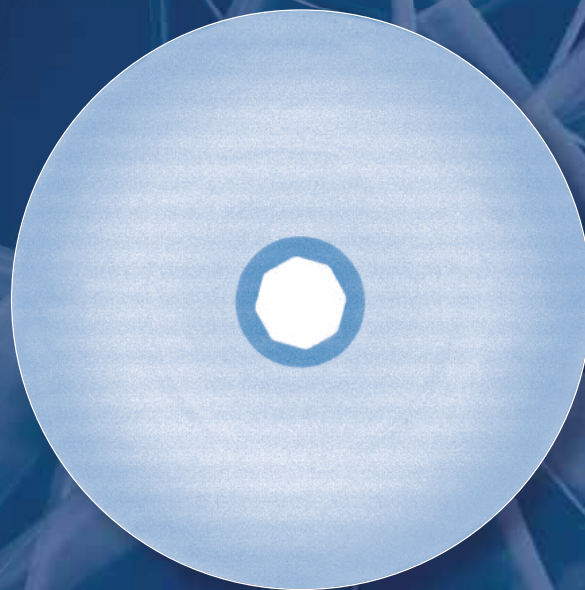
70 μm x 70 μm , OD of fused silica: 115 μm
140 μm x 140 μm , OD of fused silica: 231 μm
150 μm x 150 μm , OD of fused silica: 330 μm
200 μm x 200 μm , OD of fused silica: 420 μm
215 μm x 215 μm , OD of fused silica: 440 μm
400 μm x 400 μm , OD of fused silica: 660 μm

- Rectangular Geometry (Optran WF, Nylon jacket, NA=0.22)

150 μm x 300 μm , OD of fused silica: 660 μm

- Octagonal Geometry - width across flats (Optran WF, Nylon jacket, NA=0.22)

50 μm , OD of fused silica: 330 μm
70 μm , OD of fused silica: 462 μm
100 μm , OD of fused silica: 660 μm



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