

Company

UV/VIS Quartz/Quartz Fibers
 VIS/IR Quartz/Quartz Fibers
 Quartz/Quartz Tapered Fibers

Fiber Bundles
 Laser Fibers
 Fiber rods

Hard Plastic Clad Silica Fibers
 Medical Laser Delivery Systems
 Side Light Quartz Fibers

Plastic Clad Silica Fibers
 Silica Image Fibers
 Fused Silica Capillaries

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UV/VIS Quartz/Quartz Fibers

Features

- Superior transmission in the UV/VIS wavelength range
- Non solarization UV fiber available
- Laser damage resistant
- Radiation resistant
- Specialty coatings available for high temperatures, high vacuum and harsh chemicals environments
- Biocompatible materials
- Sterilizable by ETO, e-beam, gamma radiation
- Higher transmission than PCS-Fibers between 180 nm and 300 nm
- see also: [Improved quartz/quartz fibers for deep UV-application \(ASB-Fibers\)](#)
[Improved quartz/quartz fibers UV/VIS/IR broadband application](#)

Pagenavigation

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ISO 9001
 + 13485
 certificate

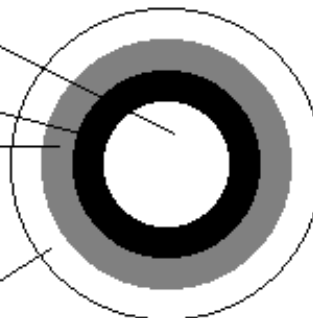
Fiber design

Pure fused silica core
 (high OH⁻)

Fluorine doped fused
 silica cladding

Acrylate coating (-40°C to 85°C)
 Silicone coating (-40°C to 150°C)
 Polyimide coating (-190°C to 385°C)

Jacket: Nylon (-40°C to 100°C)
 Tefzel (-40°C to 150°C)
 Acrylate (-40°C to 85°C)



Fiber properties

- Step index profile
- Core/clad ratio: 1.05, 1.1
- Numerical aperture: 0.22 ± 0.02
- Proof test level: 70 kpsi
- Minimum bend radius:
100 times the clad radius (momentary)
600 times the clad radius (long term)
- Laser damage threshold:
> 30 mJ/mm² (KrF, 25 ns pulse at 248 nm)
> 100 mJ/mm² (XeCl, 30 ns pulse at 308 nm)
- Radiation induced attenuation:
< 10 dB/km at dose values up to 1 Mrad

Options

- Core/clad ratios: 1.20, 1.40
- Numerical apertures: 0.10, 0.26
- Stainless steel or metal/silicone sheath
- Connectors (SMA, FC/PC, ST, DIN)

Applications

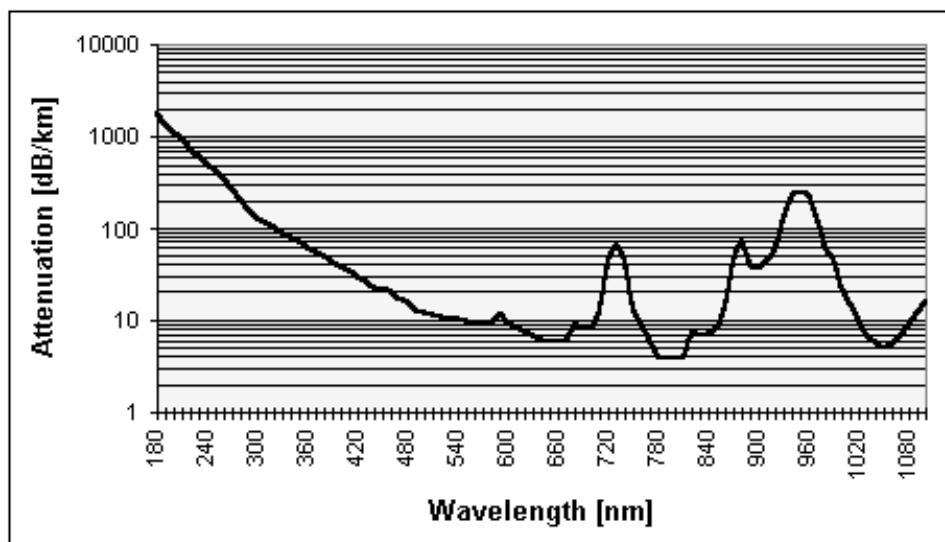
Medical

- Lithotripsy
- Angioplasty
- Ophthalmology
- Photodynamic therapy
- Laser surgery

Industrial/Scientific

- Spectroscopy
- Laser welding/soldering
- Sensors
- Aircrafts/Spacecrafts
- Nuclear power plants

Spectral attenuation



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FiberTech GmbH - Nalepastraße 171 - D-12459 Berlin
Phone (+49) 030 530058-0
Fax (+49) 030 530058-58

Webdesign, Webmaster: [onlinemars](#)