

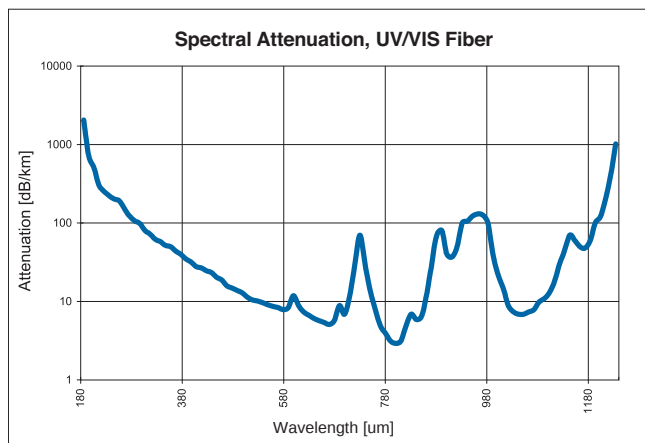
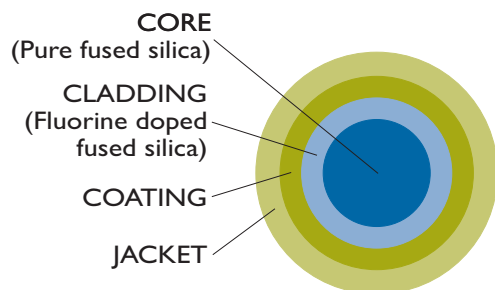
ALL SILICA UV/VIS FIBERS

OPERATING SPECTRAL RANGE: 200-1200 NM



FEATURES

- Superior transmission in the UV/VIS wavelength range
- Laser damage resistant
- Radiation resistant
- Specialty coatings available for high temperatures, high vacuum and harsh environments
- Biocompatible materials
- Sterilizable by ETO, e-beam, gamma radiation
- Higher transmission than plastic clad silica (PCS) fibers between 200 nm and 300 nm



FIBER PROPERTIES

- Step index profile
- Clad/core ratio: 1.1 typical, 1.05, 1.2, 1.4, 2.5 also available
- Numerical aperture: 0.22 ± 0.02 typical, 0.10, 0.16, 0.28 also available
- Proof test: 70 kpsi
- Minimum bend radius:
300 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

Coating materials

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

Jacket materials

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

APPLICATIONS

Medical

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

Industrial/Scientific

- Spectroscopy
- Laser welding/soldering
- Remote sensing
- Aerospace
- Military



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PRODUCT CODE	CORE DIAMETER [μm] ± 2 %	CLAD DIAMETER [μm] ± 2 %	COATING DIAMETER [μm] ± 3 %	STANDARD COATING	SECOND BUFFER DIAMETER [μm] ± 5 %	NUMERICAL APERTURE ± 0.02
NYLON JACKETED FIBERS (-40°C TO 100°C)						
SUV100/110AN	100	110	180	ACRYLATE	400	0.22
SUV200/220AN	200	220	350	ACRYLATE	500	0.22
SUV300/330AN	300	330	440	ACRYLATE	650	0.22
SUV400/440AN	400	440	550	ACRYLATE	700	0.22
SUV600/660AN	600	660	800	ACRYLATE	1000	0.22
SUV800/880AN	800	880	1050	ACRYLATE	1300	0.22
SUV1000/1100AN	1000	1100	1250	ACRYLATE	1500	0.22
SUV1500/1650AN	1500	1650	1900	ACRYLATE	2200	0.22
TEFZEL JACKETED FIBERS (-40°C TO 150°C)						
SUV200/220ST	200	220	350	SILICONE	500	0.22
SUV300/330ST	300	330	450	SILICONE	700	0.22
SUV400/440ST	400	440	550	SILICONE	800	0.22
SUV600/660ST	600	660	800	SILICONE	1200	0.22
SUV800/880ST	800	880	1000	SILICONE	1550	0.22
SUV1000/1100ST	1000	1100	1250	SILICONE	1800	0.22
ACRYLATE COATED FIBERS (-40°C TO 85°C)						
SUV10/125A	10	125	250	DOUBLE LAYER ACRYLATE	-	0.10
SUV25/125A	25	125	250	DOUBLE LAYER ACRYLATE	-	0.10
SUV50/125A	50	125	250	DOUBLE LAYER ACRYLATE	-	0.22
SUV105/125A	105	125	250	ACRYLATE	-	0.22
POLYIMIDE COATED FIBERS (-190°C TO 385°C)						
SUV50/55PI	50	55	60	POLYIMIDE	-	0.22
SUV50/125PI	50	125	145	POLYIMIDE	-	0.22
SUV100/110PI	100	110	125	POLYIMIDE	-	0.22
SUV200/220PI	200	220	245	POLYIMIDE	-	0.22
SUV300/330PI	300	330	355	POLYIMIDE	-	0.22
SUV400/440PI	400	440	470	POLYIMIDE	-	0.22
SUV600/660PI	600	660	710	POLYIMIDE	-	0.22

OPTIONAL NYLON OR TEFZEL JACKET FOR POLYIMIDE COATED FIBERS AVAILABLE.

OTHER SPECIFICATIONS UPON REQUEST.