

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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tions

Improved quartz/quartz fibers for deep UV-application

Features

- Superior transmission in the UV/VIS wavelength range
- Non solarization UV fiber
- Laser damage resistant
- Radiation resistant
- High core to clad ratio available for high efficiency bundles
- Specialty coatings available for high temperatures, high vacuum and harsh chemicals environments
- Biocompatible materials
- Sterilizable by ETO, steam, e-beam, gamma radiation
- see also:
[UV/VIS quartz/quartz fibers](#)
[Improved quartz/quartz fibers UV/VIS/IR broadband application](#)

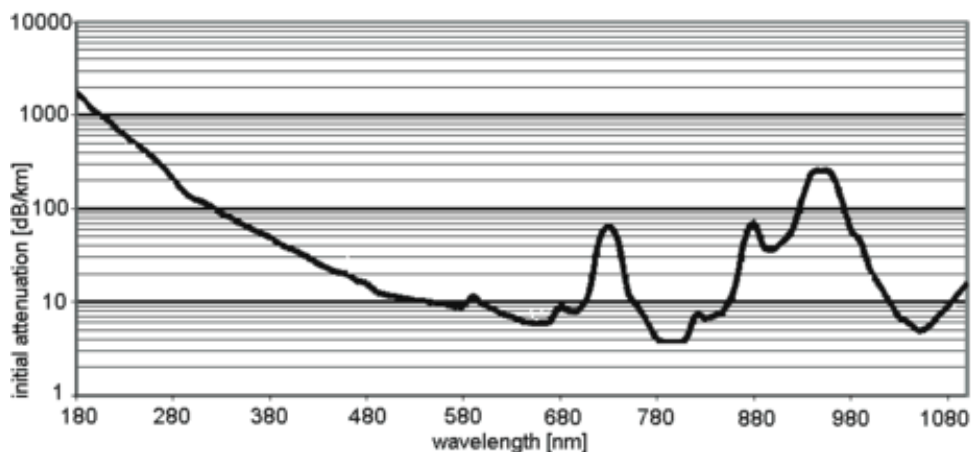
Pagenavigation

Features

[Initial attenuation](#)
[Photodegradation and recovery \(1000 pulses\)](#)
[Photodegradation ArF-excimer laser](#)
[Photodegradation KrF-excimer laser](#)
[Photodegradation and recovery deuterium lamp](#)

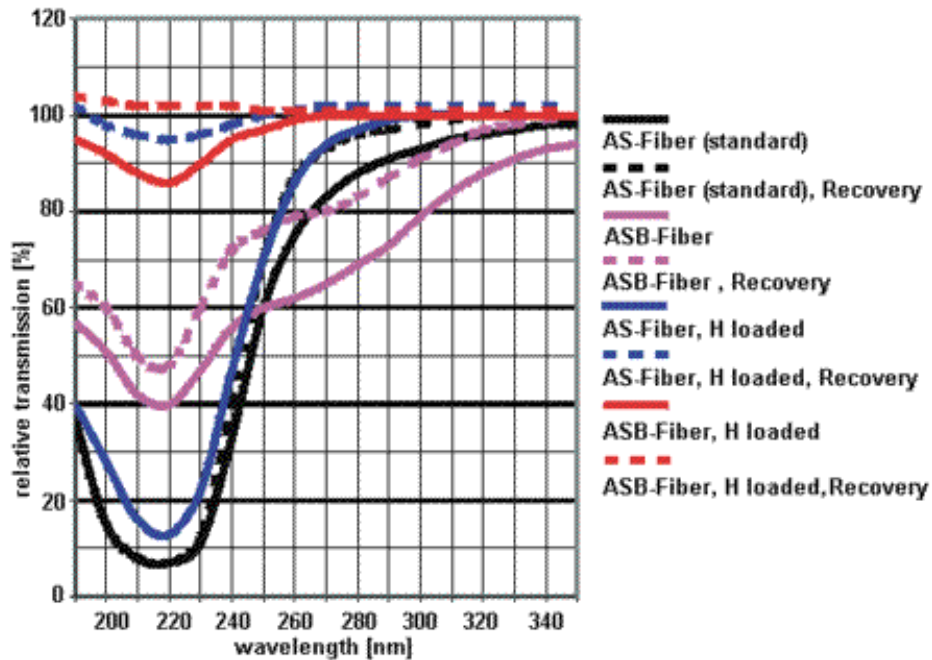
Initial attenuation

Initial attenuation of UV/VIS/NIR all silica fibers.



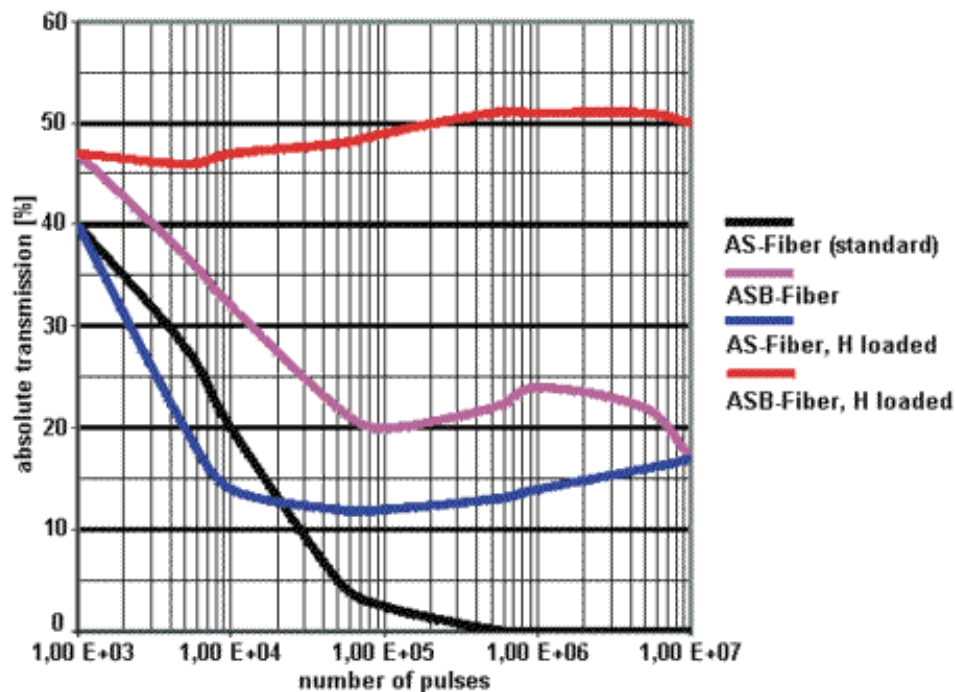
Photodegradation and recovery after 1000 pulses

Photodegradation and recovery of UV/VIS/NIR all silica fibers (length 1m) after 1000 ArF-excimer laser pulses (50 mJ/cm², 10 Hz) and 10 min recovery



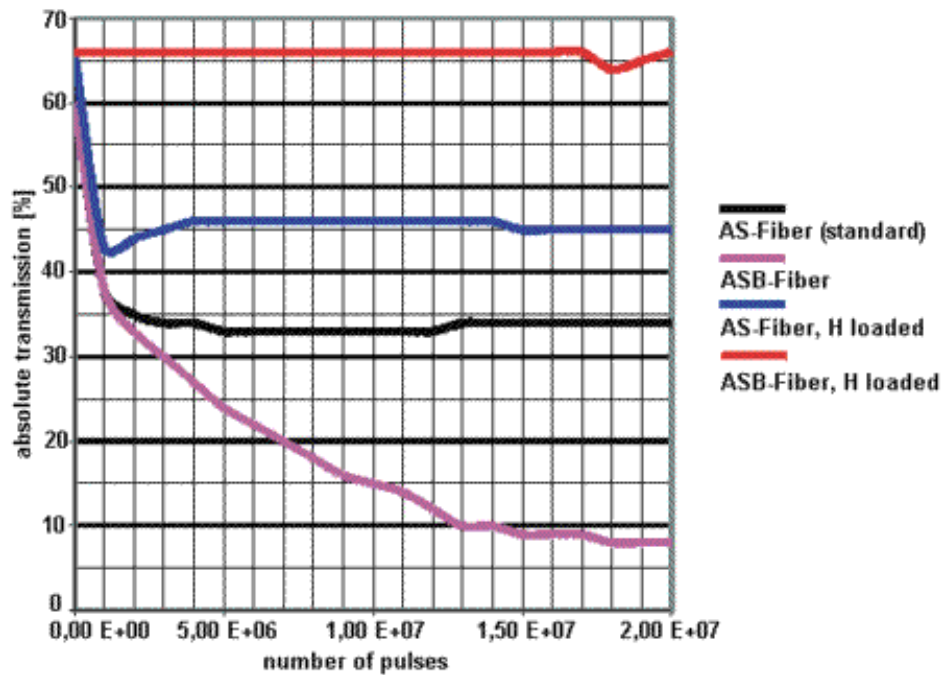
Photodegradation ArF-excimer laser irradiation

Photodegradation of UV/VIS/NIR all silica fibers (length 1m) upon long time ArF-excimer laser irradiation (5 mJ/cm², 400 Hz)



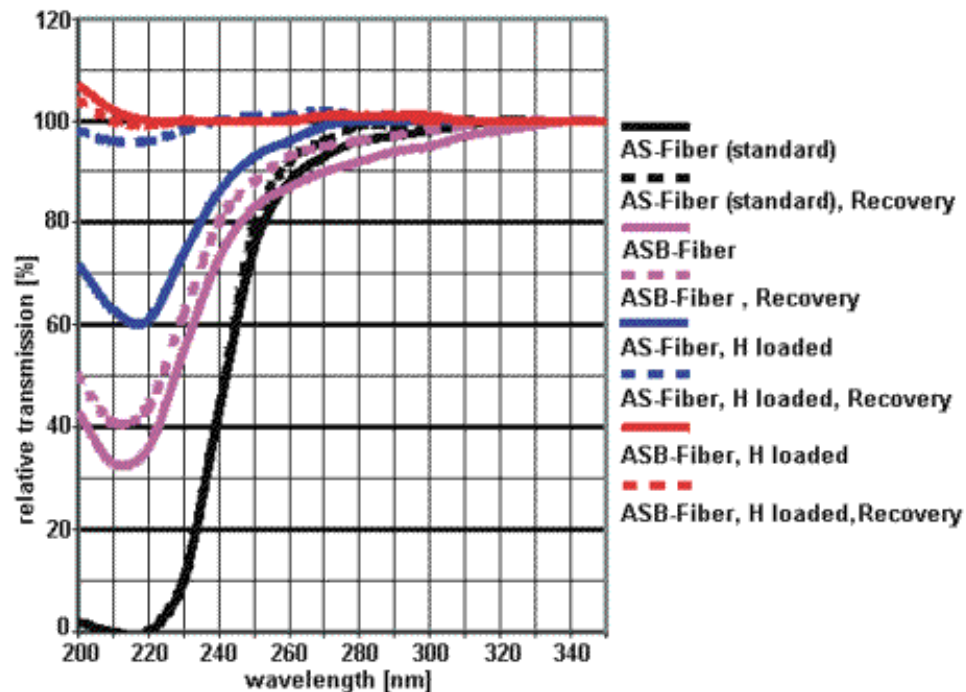
Photodegradation KrF-excimer laser irradiation

Photodegradation of UV/VIS/NIR all silica fibers (length 3m) upon long time KrF-excimer laser irradiation (5 mJ/cm², 500 Hz)



Photodegradation and recovery deuterium lamp irradiation

Photodegradation and recovery of UV/VIS/NIR all silica fibers (length 2m) after 2 hours of deuterium lamp irradiation (70 nW/nm at 215 nm) and 3 hours recovery.



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