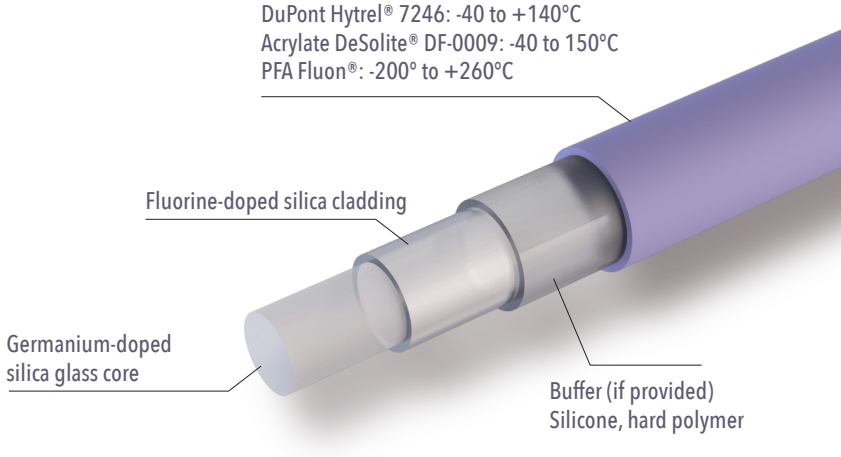
ArmD™ Ultra WFGE
Ge-doped silica/silica fiber

Armadillo ArmD™ Ultra WFGE fibers distinguish themselves with maximum numerical aperture values, unparalleled performance, and an extensive spectral range. Offering a wide range of core diameter options and customizable solutions, these fibers can be tailored to meet your specific needs.

Wavelength	
ArmD™ Ultra WFGE	400 – 2400 nm

Numerical aperture (NA)	
Standard	0,37 ± 0,02

Jacketing Options:
Polyimide: -190 to +350°C
ETFE (Tefzel®): -40 to +150°C
Nylon:-40 to +100°C
Acrylate: -40 to +85°C
DuPont Hytrel® 7246: -40 to +140°C
Acrylate DeSolite® DF-0009: -40 to 150°C
PFA Fluon®: -200° to +260°C



High NA for Demanding Applications

Advantages

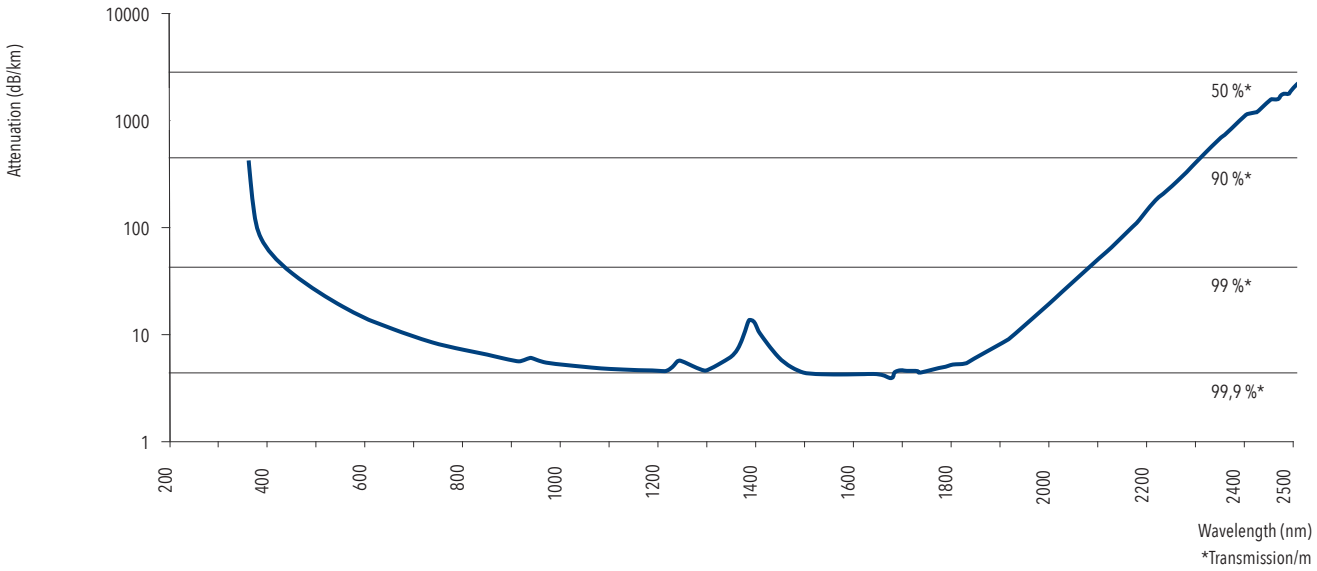
- Germanium-doped silica glass core
- Step-index profile
- High resistance against laser damage
- Special jackets available for high temperatures, high vacuum and harsh chemicals
- Very low NA expansion
- Biocompatible material
- Sterilizable using ETO and other methods

Technical data

Wavelength / spectral range	ArmD™ Ultra WFGE: 400 – 2400 nm
Numerical aperture (NA)	0,37 ± 0,02 higher NA upon request
Operating temperature	-190 to +350 °C
Core diameter	Available from 20 to 3000 µm
Standard core / cladding ratios	1 : 1,04 | 1 : 1,06 | 1 : 1,1 | 1 : 1,15 | 1 : 1,2 | 1 : 1,25 | 1 : 1,4 or customized
Standard prooftest	100 kpsi (nylon, ETFE, acrylate jacket) 70 kpsi (polyimide jacket)
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)

Attenuation values

The following diagram provides an overview of attenuation values in relation to wavelengths:



Applications

Primarily chosen for applications such as spectroscopy, laser technology, research, photodynamic therapy, and various other purposes.

1 2 3 4 5 6

Product code key using the example of WF 300/330 (H)(B)N (28)

1	Fiber type	UV = ArmD™ UV | WF = ArmD™ WF | WFGE = ArmD™ WFGE | HUV = ArmD™ HUV | HWF = ArmD™ HWF
2	Standard core / cladding ratios	Core ø (µm) / Cladding ø (µm)
3	Buffer	H = hard polymer buffer | No information = silicone buffer
4	Colour	B = black | BL = blue | W = white | Y = yellow | R = red | G = green | No information = transparent
5	Jacket material	A = acrylate jacket (no buffer) | F = PFA Fluon® | N = nylon jacket (silicone or hard polymer jacket)
		T= ETFE jacket (silicone or hard polymer buffer) | P = polyimide jacket (no buffer)
6	Numerical aperture (NA)	12 = 0,12 | 28 = 0,28 | No information = 0,22 (standard)

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