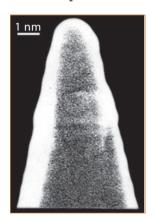
SNOM probes and accessories

SNOM probes







Probe specification:

Material	Single mode optical fiber Nufern			
Tip coating	Vanadium (20 nm) / aluminum (70 nm).			
Tip aperture	50/100 nm			
Diameter uncoated by Al	~100 nm			
Tip curvature radius	25-30 degrees			
Tip angler	400 microwatt			
Maximum optical input power	Chemical etching*			
Sharpening method				

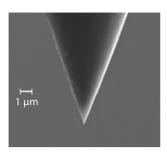
^{*} This method gives the optical efficiency 102-104 times better than those obtained by mechanical pulling.

Geometrical & mechanical fiber specification:

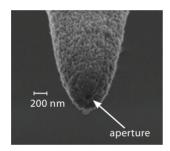
Clad Diameter	125.0 ± 1.5 μm
Coating Diameter	245 ± 15 μm
Core-Clad Concentricity	<0.5 μm
Coating/Clad Offset	≤5 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	-55 to +85 °C
Short-Term Bend Radius	≥ 6 mm
Long-Term Bend Radius	≥ 13 mm
Proof Test Level	≥ 200 kpsi (1.4 GN/m²)

SNOM probe characteristics:

Characteristic	Probe type					
	MF001	MF002	MF003	MF004	MF005	
Basic Nufern fiber	405-HP	460-HP	630-HP	780-HP	980HP	
Operating wavelength, nm	400-550	450-600	600-770	780-970	980-1600	
Mode Field Diameter	3.5 ± 0.5 μm @ 515 nm	3.5 ± 0.5 μm @ 515 nm	4.0 ± 0.5 μm @ 630 nm	5.0 ± 0.5 μm @ 850 nm	4.2 ± 0.5 μm @ 980 nm 6.8 ± 0.5 μm @ 1550 nm	
Second Mode Cut-Off, nm	370 ± 20	430 ± 20	570 ± 30	730 ± 30	920 ± 30	
Optical efficiency 100 nm aperture	6x10 ⁻⁴	4x10 ⁻⁴	1x10 ⁻⁴	4x10 ⁻⁵	4x10 ⁻⁶	
Optical efficiency 50 nm aperture	6x10 ⁻⁵	4x10 ⁻⁵	1x10 ⁻⁵	5x10 ⁻⁶	4x10 ⁻⁷	



Uncoated SNOM probe tip



Probe tip with Al coating. Aperture is about 70 nm.

Code for ordering

MF001

Set of 10 SNOM probes MF001 type without tuning forks

MF002

Set of 10 SNOM probes MF002 type without tuning forks

MF003

Set of 10 SNOM probes MF003 type without tuning forks

MF004

Set of 10 SNOM probes MF004 type without tuning forks

MF005

Set of 10 SNOM probes MF005 type without tuning forks

