

Polymicro nano-Capillary Fused Silica Capillary Tubing

molex

Building on industry-leading capabilities, Polymicro nano-Capillary tubing delivers cost-effective, high-performance capillary tubing with internal diameters ranging from 200 to 1000 nanometers for Scientific, Industrial and Medical applications

Features and Benefits

Sub-1µm ID capillary tubing

- Offers potential for single molecule analysis
- Utilizes round channel geometry
- Assures accurate dimensions through SEM verification

Pure synthetic fused silica capillary

- Mirror-smooth interior surfaces for stable flow of liquids and gases
- Low metal ion content provides an inert inner surface
- Facilitates efficient cleaving or cutting for custom lengths of tubing

Polyimide coating

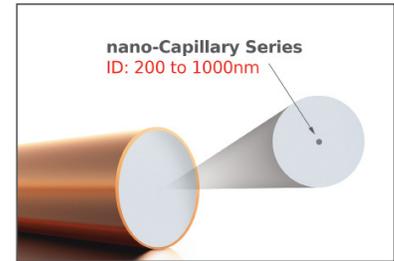
- Offers excellent abrasion resistance during handling and usage
- Resists temperatures up to +350°C with standard coating
- Allows product flexure with superior bend radius

Industry-standard OD dimension

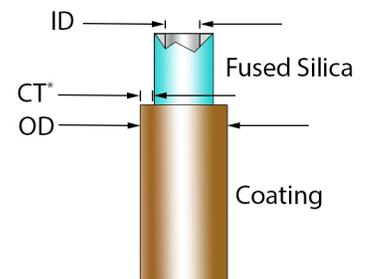
- Interfaces easily with existing fitting technologies
- Provides significant advantages in prototyping and system optimization

Custom options available

- Boosts design efficiency and can be tailored to virtually any application



Polymicro nano-Capillary Tubing



Polymicro Fused Silica Capillary Diagram

Applications

Scientific

Analytical Chemistry
Chromatographic Techniques
Nano-Fluidics
On-Column Monitoring
Evanesence Based Sensing
Coaxial Light and Fluidic Devices

Industrial

Package Leak Testing
Evaporative Cooling Systems
Petroleum Analysis
Catalytic Research

Medical

Precision Drug Delivery
Flow Control Systems
Clinical and Diagnostics Devices
Wearable Drug Delivery Devices Scientific

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Product Overview

Material Number	Product Description	Inner Diameter (nm)*	Outer Diameter (um)	Coating Thickness (um)	nano-Capillary Length
106815-0033	TSP000.2375NC	200 +200/-100	363 ± 10	20	Up to 10m per spool Max.
106815-0035	TSP000.6375NC	600 ± 200			
106815-0037	TSP001.0375NC	1000 ± 500			

*Tolerances listed are target values. Individual spools up to 10m lengths are sorted based on the average ID values; actual ID's recorded on the spools may deviate beyond the target tolerances listed.

Capillary Accessories

Cleaving Stones

This is a tool designed for cutting capillary tubing and optical fiber. Capillary can be cleaved to any desired length. (When used properly it produces a Standard Cleave: Can be used to produce a Rough Cut.)

Custom Logos printing available

MOQ – 10 pieces



Cleaving stone

Accessories Overview

Material Number	Product Description	Image	Material	Dimensions	Package Size
106868-0064	Cleaving Stone	Polymicro	Ceramic Tile	1" x 1" x 1/32"	Individual

www.molex.com/polymicro