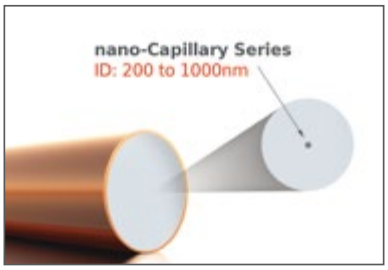
Polymicro Technologies™
nano-Capillary
Fused Silica Capillary Tubing

molex®

Building on industry-leading capabilities, Polymicro Technologies™ 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



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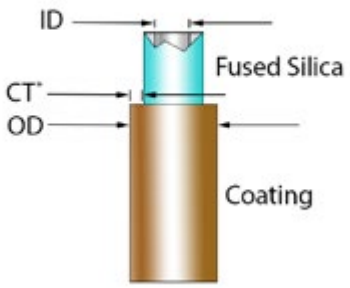

Polymicro Technologies™
Fused Silica Capillary Diagram

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 +350ºC 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

Applications

Scientific

- Analytical Chemistry
- Chromatographic Techniques
- Nano-Fluidics
- On-Column Monitoring
- Evanescence 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 (µm)	nano-Capillary Length
106815-0033	TSP000.2375NC	200 ± 100	363 ± 10	20	Up to 10m per spool Max.
106815-0034	TSP000.4375NC	400 ± 100			
106815-0035	TSP000.6375NC	600 ± 100			
106815-0036	TSP000.8375NC	800 ± 100			
106815-0037	TSP001.0375NC	1000 ± 100			

Capillary Accessories

Inner-Loks™ GC Y Union

Y-shaped capillary connectors used in Gas Chromatography as:

- Connectors
- Jumpers
- Splicers
- Gas mixtures
- Splits one flow line into two columns
- Splits flow into two detectors
- MOQ – 2 pieces

Inner-Loks™ GC Union

Unions are straight capillary used in Gas Chromatography, Liquid Chromatography and columns as:

- Splitters
- Splicers
- Connect guard columns
- Connect transfer line
- Repairs broken columns
- End fittings
- Ferrules (Single & Double Flared)
- MOQ – 3 packs (total 15 pieces)

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

Inner-Lok™ GC Y Union

Inner-Lok™ GC Union

Cleaving stone

Accessories Overview

Material Number	Product Description	Taper ID Minimum	Taper ID Maximum	Outside Diameter	Nominal Length	Package Size
106845-0059	Inner-Lok™ GC Y Union	200µm	300µm	1800 +0/-20µm	38mm	10
106845-0099	Inner-Lok™ GC Union 5PK					5

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

www.molex.com/polymicro