# **Polymicro Technologies**<sup>™</sup>

nano-Capillary

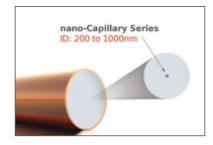
## Fused Silica Capillary Tubing

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

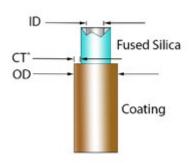
### **Features and Benefits**

Sub-1μm ID capillary tubing	<ul> <li>Offers potential for single molecule analysis</li> <li>Utilizes round channel geometry</li> <li>Assures accurate dimensions through SEM verification</li> </ul>
Pure synthetic fused silica capillary	<ul> <li>Mirror-smooth interior surfaces for stable flow of liquids and gases</li> <li>Low metal ion content provides an inert inner surface</li> <li>Facilitates efficient cleaving or cutting for custom</li> <li>lengths of tubing</li> </ul>
Polyimide coating	<ul> <li>Offers excellent abrasion resistance during handling and usage</li> <li>Resists temperatures up to +350°C with standard coating</li> <li>Allows product flexure with superior bend radius</li> </ul>
Industry-standard OD dimension	<ul> <li>Interfaces easily with existing fitting technologies</li> <li>Provides significant advantages in prototyping and system optimization</li> </ul>
Custom options available	Boosts design efficiency and can be tailored to virtually any application





Polymicro Technologies<sup>™</sup> nano-Capillary Tubing



Polymicro Technologies<sup>™</sup> Fused Silica Capillary Diagram

### **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

## Polymicro Technologies<sup>™</sup> nano-Capillary Fused Silica Capillary Tubing



### **Product Overview**

Material Number	Product Description	Inner Diameter (nm)	Outer Diameter (um)	Coating Thickness (µm)	nano-Capillary Length
106815-0033	TSP000.2375NC	200 ± 100			
106815-0034	TSP000.4375NC	400 ± 100			
106815-0035	TSP000.6375NC	600 ± 100	363 ± 10	20	Up to 10m per spool Max.
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	300µт	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

Inner-Lok™ is a registered trademark of Polymicro Technologies

www.molex.com/polymicro