Polymicro Technologies**Polyimide Coated

Fused Silica Capillary Tubing

Scientific, Industrial and Medical applications



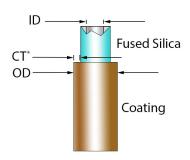
Features and Benefits

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
Wide range of internal and external diameters with tight dimensional control	Enables design flexibility and operation efficiency. Superior dimensional stability over long lengths of tubing. External diameters mate with existing industry equipment connector technologies
TSP and TSG polyimide coatings	Offer excellent abrasion resistance during handling and usage. Resist temperatures up to +350°C for TSP; up to +400°C for TSG. Allow product flexure with superior bend radius
Custom options available	Boost design efficiency. Provide small production values at reasonable costs. Ensure prototype





Polymicro Technologies[™] Polyimide Coated Capillary Tubing



Fused Silica Capillary Diagram

Applications

Analytical Chemistry Chromatographic Techniques

Micro- and Nano-Fluidics Mass Spectroscopy Interfaces

Industrial

Package Leak Testing **Evaporative Cooling Systems**

methodology is directly scalable to high volume with

Petroleum Analysis Catalytic Research

minimal design costs

Medical

Precision Drug Delivery Flow Control Systems

Clinical and Diagnostics Devices Wearable Drug Delivery Devices

Product Overview

POLYIMIDE COATED CAPILLARY TUBING COMPARISON									
Attribute	TSP	TSP 1/32"	TSP Thick Wall	TSG	WWP				
Geometry	Circular	Circular	Circular	Circular	Square				
Operating Temp	-65 to +350°C	-65 to +350°C	-65 to +350°C	-65 to +400°C	-65 to +350°C				
Outer Diameter Dimensions	Varied	Fixed	Fixed	Varied	Fixed				
Proof Tested	100%	100%	100%	100%	N/A				
Polyimide Coating Type	Standard	Standard	Standard	High-Temperature	Standard				

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Ordering Information and Specifications

Material Number	Product Description	Material	Inner Diameter (µm)	Outer Diameter (µm)	Coating Thickness (µm)	Material Number	Product Description	Material	Inner Diameter (µm)	Outer Diameter (µm)	Coating Thickness (µm)
106815-0001	TSP002150		2 ± 1	150 ± 6	12	106815-0024	TSP150375	TSP Standard Polyimide Coating	150 ± 4	363 ± 10	20
106815-0002	TSP005150		5 ± 2	150 ± 6	12	106815-0025	TSP180350		180 ± 6	360 ± 10	18
106815-0003	TSP005375		5 ± 2	363 ± 10	20	106815-0204	TSP200350		200 ± 6	360 ± 10	18
106815-0004	TSP010150		10 ± 2	150 ± 6	12	106815-0026	TSP250350		250 ± 6	360 ± 10	18
106815-0005	TSP010375		10 ± 2	363 ± 10	20	106815-0027	TSP320450		320 ± 6	435 ± 10	18
106815-0006	TSP015150		15 ± 2	150 ± 6	12	106815-0625	TSP450670		450 ± 6	673 ± 15	24
106815-0007	TSP015375		15 ± 2	363 ± 10	20	106815-0476	TSP530660		536 ± 6	665 ± 15	24
106815-0381	TSP020090		20 ± 2	90 ± 6	12	106815-0028	TSP530700		530 ± 10	700 ± 20	24
106815-0008	TSP020150		20 ± 2	150 ± 6	12	106815-0029	TSP700850		700 ± 10	850 ± 20	24
106815-0009	TSP020375		20 ± 2	363 ± 10	20	106815-0030	TSG250350	TSG High-Temperature Polyimide Coating	250 ± 6	350 ± 15	20
106815-1145	TSP025150		25 ± 2	150 ± 6	12	106815-0031	TSG320450		320 ± 6	435 ± 15	18
106815-0011	TSP025375	TSP Standard Polyimide Coating	25 ± 2	363 ± 10	20	106815-0032	TSG530660		536 ± 6	673 ± 25	30
106815-0012	TSP030150		30 ± 2	150 ± 6	12	106816-0099	TSP050794	TSP 1/32" Standard Polyimide Coating	50 ± 3	794 ± 12	24
106815-0013	TSP030375		30 ± 2	363 ± 10	20	106815-0065	TSP075794		75 ± 3	794 ± 12	24
106815-0596	TSP040105		40 ± 3	105 ± 6	12	106815-0066	TSP100794		100 ± 4	794 ± 12	24
106815-0014	TSP040150		40 ± 3	150 ± 6	12	106815-0067	TSP200794		200 ± 6	794 ± 12	24
106815-0383	TSP040375		40 ± 3	363 ± 10	20	106815-0068	TSP250794		250 ± 6	794 ± 12	24
106815-0015	TSP050150		50 ± 3	150 ± 6	12	106815-0069	TSP300794		300 ± 6	794 ± 12	24
106815-0016	TSP050192		50 ± 3	186 ± 6	16	106815-0070	TSP400794		400 ± 6	794 ± 12	24
106815-0017	TSP050375		50 ± 3	363 ± 10	20	106815-0071	TSP500794		500 ± 6	794 ± 12	24
106815-0018	TSP075150		75 ± 3	150 ± 6	12	106815-1815	TSP150665	TSP Thick Wall Standard Polyimide Coating	150 ± 6	665 ± 15	24
106815-0133	TSP075200		75 ± 3	193 ± 7	12	106815-1816	TSP200665		200 ± 6	665 ± 15	24
106815-0019	TSP075375		75 ± 3	363 ± 10	20	106815-1817	TSP250665		250 ± 6	665 ± 15	24
106815-0020	TSP100170		100 ± 4	164 ± 6	12	106815-1818	TSP300665		300 ± 6	665 ± 15	24
106815-0021	TSP100200		100 ± 4	193 ± 7	12	106815-1513	WWP050375	WWP* Square-Square Polyimide Coating	50 ± 5	363 ± 15	N/A**
106815-0022	TSP100245		100 ± 4	238 ± 7	16	106815-1514	WWP075375		75 ± 5	363 ± 15	N/A**
106815-0023	TSP100375		100 ± 4	363 ± 10	20	106815-1515	WWP100375		100 ± 5	363 ± 15	N/A**

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^{*} All WWP materials have an ID measured flat-to-flat and a glass OD dimension of nominally 300µm flat-to-flat

^{**} Polyimide coating provides near-circular geometry over square glass material

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