



FREQUENTLY ASKED QUESTIONS: CAPILLARY TUBING

Capillary tubing is small internal diameter tubing made from high-purity, synthetic glass. The tubing can then be coated to allow for more flexibility and strength. Our capillary tubing has a wide range of wall thicknesses, internal diameters (ID), outer diameters (OD), geometries and coatings.

Why Use Our Capillary Tubing?

- High strength and flexible
- Abrasion resistant when externally coated
- Mirror-smooth interior surface
- Inert surfaces and high purity
- High dielectric strength
- Easily cleaved or cut
- Superior temperature resistance
- Dimensionally stable over long length



What Are Our Product Lines?

TSP – Polyimide Coated

TSG – High Temp Polyimide

TSU – Deep UV Transparent

TSH – UV Transparent

VS – Tight Tolerance

CC – Cut and Cleave

WWP – Square ID Square OD

WIN – Window Capillary

CTA – Capillary Assemblies

What Are the Philips Medisize Capabilities?

Materials	Fused Silica and Quartz
Internal Diameters (ID)	25 to 2000 μm
Outer Diameters (OD)	0.10 to 0.66
Coatings	<ul style="list-style-type: none">• Polyimide• High Temperature (up to 400°C)• Deep UV Transparent• UV Transparent
End-prep Techniques	<ul style="list-style-type: none">• Saw Cut• Precision Saw Cut• Standard Cleave• Precision Cleave• Laser Cut
Value-add Opportunities	<ul style="list-style-type: none">• UV and CO₂ Laser Machining• Capillary Arrays and Assemblies• Micro-components• ID Coatings
Certifications	<ul style="list-style-type: none">• ISO 9001• ISO 13485

What Applications can Capillary Support?

MEDICAL

- Drug Delivery Systems
- Flow Restrictors
- Micro-insulators
- Precision Flow Control

INDUSTRIAL

- Analytical Chemistry
- Flow Cells
- Hollow Wave Guides
- Liquid Light Guides
- Micro-pipettes



To learn more about our diverse portfolio and our expertise in fiber and capillary tubing, visit phillipsmedisize.com/medtech.