

April 2008

# Fused Silica Capillary Tubings

## **FSS Standard Polyimide Coating**

Standard polyimide coating  
Synthetic fused silica  
100% proof tested at 100kpsi  
High Temperature Operation up to 400 °C

## **FSU UV Transparent Coating**

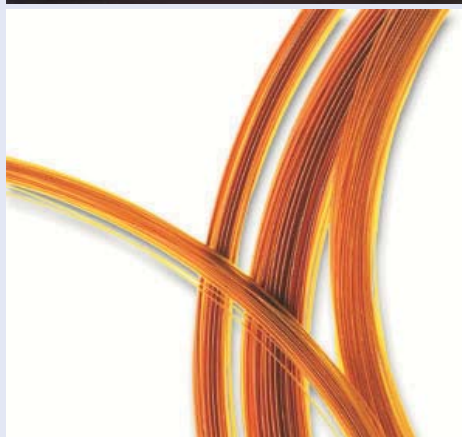
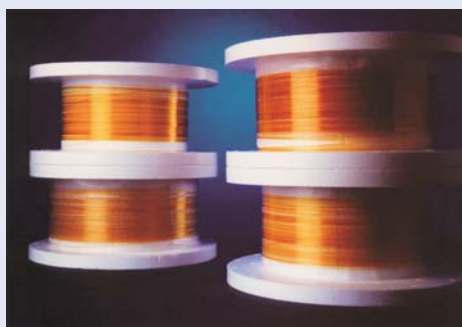
UV transparent Coating  
Synthetic fused silica  
Operation up to 160 °C

## **FSP Precision Windowed Capillary**

PreCut with window for CE-Instruments  
1 m length for general Applications  
Window 2 mm long for use in CE  
Based on FSS fused silica tubings

## **FSF Square Flexible Capillary**

Standard polyimide coating as FSS  
Synthetic fused silica with high strength  
Operation up to 350 °C  
Intermittent up to 400 °C



We provide a great variety of flexible fused silica capillary products with inner diameters from 2 - 750  $\mu\text{m}$  and with numerous coatings available. We can supply a wide range of tubing from thin walled polyimide coated flexible fused silica to thick walled silica quartz tubes without coating. We can provide custom sizes, custom tolerances, and a wide range of durable and protective coatings with lowest tolerances to meet our customer's needs.

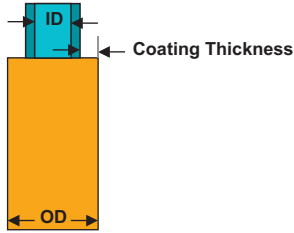
## **Applications:**

Fused silica is used for a broad range of applications. Some examples are:

- Capillary Electrophoresis with tubing and windowed capillaries.
- Gas Chromatography with tubing and coils and for GC columns in different varieties.
- Genomics with tubing, arrays, and assemblies for DNA sequencing and fragment analysis.
- Proteomics with tubing for capillary LC columns, fluid connections, and MS interfacing.
- Microfluidics including Lab-on-a-chip with tubing for fluid connections for nano/micro devices.
- Mass Flow Control with precision cut pieces for tightly controlled delivery of gases/fluids.
- Precision Flow Cells with custom tubing for Cytometry, Chromatography and CE.

## Key Features:

- Wide selection of different sized silica capillaries.
- Internal diameters from 1 µm up to several mm.
- Outer diameters down from 60 µm up to several mm.
- Unique internal and external geometries.
- Excellent chemical durability and inertness.
- Silica and quartz that are stronger than steel.
- Tight but still economical affordable tolerances.
- Materials that are easy to cleave or cut.
- Proven combination of silica and polyimide.
- FS capillaries with unparalleled strength/flexibility.
- Fixed and reliable specifications providing unmatched reproducibility for chromatographic and mass flow applications.
- Low fluorescence background for stable reproducible use in on-column detection methods because of superior UV/Vis transmission when protective coating is removed
- High purity silica allows for precision laser machining of integrated value added features.



## Product Groups:

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Window 2 mm long for use in CE  
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### FSF Square Flexible Capillary

Standard polyimide coating as FSS  
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Operation up to 350 °C  
Intermittent up to 400 °C



### Postnova Analytics GmbH

Max-Planck-Str. 14  
86899 Landsberg am Lech/Germany  
Tel. : +49.8191.428-181  
Fax : +49.8191.428-175

### Postnova Analytics Inc.

230 South, 500 East, Suite # 120  
84102 Salt Lake City, UT/USA  
Tel. : +1.801.521-2004  
Fax : +1.801.521-2884

email : info@postnova.com  
web : www.postnova.com

# Fused Silica Capillary Tubing

## Item ID Description

Price [€]

### FSS Standard Polyimide Coating

Z-FSS-002150	Capillary, Fused Silica, ID 002 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-005150	Capillary, Fused Silica, ID 005 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-005365	Capillary, Fused Silica, ID 005 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-010150	Capillary, Fused Silica, ID 010 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-010365	Capillary, Fused Silica, ID 010 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-015150	Capillary, Fused Silica, ID 015 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-015365	Capillary, Fused Silica, ID 015 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-020090	Capillary, Fused Silica, ID 020 µm, OD 090 µm, Coating 12 µm, 10 m	198,0
Z-FSS-020150	Capillary, Fused Silica, ID 020 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-020280	Capillary, Fused Silica, ID 020 µm, OD 280 µm, Coating 12 µm, 10 m	98,0
Z-FSS-020365	Capillary, Fused Silica, ID 020 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-025150	Capillary, Fused Silica, ID 025 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-025280	Capillary, Fused Silica, ID 025 µm, OD 280 µm, Coating 12 µm, 10 m	98,0
Z-FSS-025365	Capillary, Fused Silica, ID 025 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-030150	Capillary, Fused Silica, ID 030 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-030365	Capillary, Fused Silica, ID 030 µm, OD 365 µm, Coating 20 µm, 10 m	198,0
Z-FSS-040105	Capillary, Fused Silica, ID 040 µm, OD 105 µm, Coating 12 µm, 10 m	198,0
Z-FSS-040150	Capillary, Fused Silica, ID 040 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-040365	Capillary, Fused Silica, ID 040 µm, OD 365 µm, Coating 16 µm, 10 m	198,0
Z-FSS-050150	Capillary, Fused Silica, ID 050 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-050200	Capillary, Fused Silica, ID 050 µm, OD 200 µm, Coating 16 µm, 10 m	98,0
Z-FSS-050280	Capillary, Fused Silica, ID 050 µm, OD 280 µm, Coating 16 µm, 10 m	98,0
Z-FSS-050365	Capillary, Fused Silica, ID 050 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-060365	Capillary, Fused Silica, ID 060 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-075150	Capillary, Fused Silica, ID 075 µm, OD 150 µm, Coating 12 µm, 10 m	98,0
Z-FSS-075190	Capillary, Fused Silica, ID 075 µm, OD 190 µm, Coating 12 µm, 10 m	98,0
Z-FSS-075280	Capillary, Fused Silica, ID 075 µm, OD 280 µm, Coating 12 µm, 10 m	98,0
Z-FSS-075365	Capillary, Fused Silica, ID 075 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-100165	Capillary, Fused Silica, ID 100 µm, OD 165 µm, Coating 12 µm, 10 m	98,0
Z-FSS-100190	Capillary, Fused Silica, ID 100 µm, OD 190 µm, Coating 12 µm, 10 m	98,0
Z-FSS-100280	Capillary, Fused Silica, ID 100 µm, OD 280 µm, Coating 16 µm, 10 m	98,0
Z-FSS-100365	Capillary, Fused Silica, ID 100 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-150280	Capillary, Fused Silica, ID 150 µm, OD 280 µm, Coating 20 µm, 10 m	98,0
Z-FSS-150365	Capillary, Fused Silica, ID 150 µm, OD 360 µm, Coating 20 µm, 10 m	198,0
Z-FSS-180365	Capillary, Fused Silica, ID 180 µm, OD 360 µm, Coating 20 µm, 10 m	98,0
Z-FSS-200280	Capillary, Fused Silica, ID 200 µm, OD 280 µm, Coating 20 µm, 10 m	98,0
Z-FSS-200365	Capillary, Fused Silica, ID 200 µm, OD 360 µm, Coating 20 µm, 10 m	98,0
Z-FSS-250350	Capillary, Fused Silica, ID 250 µm, OD 350 µm, Coating 20 µm, 10 m	98,0
Z-FSS-250365	Capillary, Fused Silica, ID 250 µm, OD 360 µm, Coating 20 µm, 10 m	98,0
Z-FSS-320435	Capillary, Fused Silica, ID 320 µm, OD 435 µm, Coating 20 µm, 10 m	98,0
Z-FSS-320465	Capillary, Fused Silica, ID 320 µm, OD 465 µm, Coating 20 µm, 10 m	98,0
Z-FSS-430550	Capillary, Fused Silica, ID 430 µm, OD 550 µm, Coating 20 µm, 10 m	98,0
Z-FSS-530670	Capillary, Fused Silica, ID 530 µm, OD 670 µm, Coating 24 µm, 10 m	98,0
Z-FSS-680880	Capillary, Fused Silica, ID 680 µm, OD 880 µm, Coating 24 µm, 10 m	198,0

### FSU UV Transparent Coating

Z-FSU-050363	Capillary, Fused Silica, ID 050 µm, OD 363 µm, Coating 15 µm, 10 m	249,0
Z-FSU-075363	Capillary, Fused Silica, ID 075 µm, OD 363 µm, Coating 15 µm, 10 m	249,0
Z-FSU-100363	Capillary, Fused Silica, ID 100 µm, OD 363 µm, Coating 15 µm, 10 m	249,0

### FSP Precision Window Capillary

Z-FSP-04550-33	Capillary, Fused Silica, ID 050 µm, OD 363 µm, to Detector 24,5 cm, Total 33 cm	50,0
Z-FSP-04550-45	Capillary, Fused Silica, ID 050 µm, OD 363 µm, to Detector 31 cm, Total 45 cm	50,0
Z-FSP-04550-48	Capillary, Fused Silica, ID 050 µm, OD 363 µm, to Detector 40 cm, Total 48,5 cm	50,0
Z-FSP-04550-64	Capillary, Fused Silica, ID 050 µm, OD 363 µm, to Detector 56 cm, Total 64,5 cm	50,0
Z-FSP-04550-80	Capillary, Fused Silica, ID 050 µm, OD 363 µm, to Detector 72 cm, Total 80,5 cm	50,0
Z-FSP-050363	Capillary, Fused Silica, ID 050 µm, OD 363 µm, to Detector 30 cm, Total 1 m	50,0
Z-FSP-04575-33	Capillary, Fused Silica, ID 075 µm, OD 363 µm, to Detector 24,5 cm, Total 33 cm	50,0
Z-FSP-04575-45	Capillary, Fused Silica, ID 075 µm, OD 363 µm, to Detector 31 cm, Total 45 cm	50,0
Z-FSP-04575-48	Capillary, Fused Silica, ID 075 µm, OD 363 µm, to Detector 40 cm, Total 48,5 cm	50,0
Z-FSP-04575-64	Capillary, Fused Silica, ID 075 µm, OD 363 µm, to Detector 56 cm, Total 64,5 cm	50,0
Z-FSP-04575-80	Capillary, Fused Silica, ID 075 µm, OD 363 µm, to Detector 72 cm, Total 80,5 cm	50,0
Z-FSP-075363	Capillary, Fused Silica, ID 075 µm, OD 363 µm, to Detector 30 cm, Total 1 m	50,0
Z-FSP-100363	Capillary, Fused Silica, ID 100 µm, OD 363 µm, to Detector 30 cm, Total 1 m	50,0
Z-FSP-04500-33	Capillary, Fused Silica, ID 150 µm, OD 363 µm, to Detector 24,5 cm, Total 33 cm	50,0
Z-FSP-04500-48	Capillary, Fused Silica, ID 150 µm, OD 363 µm, to Detector 40 cm, Total 48,5 cm	50,0
Z-FSP-04500-64	Capillary, Fused Silica, ID 150 µm, OD 363 µm, to Detector 56 cm, Total 64,5 cm	50,0
Z-FSP-04500-80	Capillary, Fused Silica, ID 150 µm, OD 363 µm, to Detector 72 cm, Total 80,5 cm	50,0

### FSF Square Flexible Capillary

Z-FSF-050363	Capillary, Fused Silica, ID 050 µm, OD 300 µm, Coating 15 µm, 10 m	545,0
Z-FSF-075363	Capillary, Fused Silica, ID 075 µm, OD 300 µm, Coating 15 µm, 10 m	545,0
Z-FSF-100363	Capillary, Fused Silica, ID 100 µm, OD 300 µm, Coating 15 µm, 10 m	545,0

### Fused Silica Capillary for Dionex LC-Packings Ultimate Capillary/Nano HPLC

Z-DI-160475	Capillary, Fused Silica, ID 020 µm, OD 280 µm, 5 m, Interface Capillary to MS	99,0
Z-DI-160476	Capillary, Fused Silica, ID 025 µm, OD 280 µm, 5 m, Interface Capillary to MS	99,0
Z-DI-160477	Capillary, Fused Silica, ID 050 µm, OD 280 µm, 5 m, Interface Capillary to MS	99,0
Z-DI-160478	Capillary, Fused Silica, ID 075 µm, OD 280 µm, 5 m, Interface Capillary to MS	99,0
Z-DI-160479	Capillary, Fused Silica, ID 100 µm, OD 280 µm, 5 m, Interface Capillary to MS	99,0
Z-DI-160480	Capillary, Fused Silica, ID 150 µm, OD 280 µm, 5 m, Interface Capillary to MS	99,0
Z-DI-160481	Capillary, Fused Silica, ID 200 µm, OD 280 µm, 5 m, Interface Capillary to MS	99,0

### Deactivated Fused Silica Capillary as Precolumn for GC

Z-GC-250360	Deactivated Capillary, Fused Silica, ID 250 µm, OD 360 µm, 10 m	145,0
Z-GC-320435	Deactivated Capillary, Fused Silica, ID 320 µm, OD 435 µm, 10 m	145,0
Z-GC-530670	Deactivated Capillary, Fused Silica, ID 530 µm, OD 670 µm, 10 m	145,0

Deactivated with Methyl, Phenyl, Polyethylenglycol, Cyano, Trifluor, CW.

Other lengths available on request !