

Simplus Capillary Specifications - Tech Information

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The capillary material consists of bare silica with an outer layer of polyimide coating. The polyimide serves to enhance the mechanical properties of the material (a bare silica capillary without polyimide is brittle not physically durable).

The O.D. of the capillary is 365um +/- 10um.

The applied bending stress values at various bending radii are given in the following table:

Bend Radius (mm)														
Applied Bending Stress (kpsi)	4	6	8	10	15	20	25	30	40	50	60	80	100	130
Bend Radius	476	318	238	191	127	95	76	64	48	38	32	24	19	15

The metals assay of the material is given here:

Trace Elements in Simplus™ Brand Bare Fused Silica Capillaries

Element	Symbol	By Weight
Aluminum	Al	0.1 (0.05)
Antimony	Sb	0.002
Arsenic	As	0.03
Boron	B	0 to 0.01
Cadmium	Cd	0.0002
Calcium	Ca	0.1 (0.05)
Chromium	Cr	n.d.
Copper	Cu	0.0004
Gallium	Ga	n.d.
Gold	Au	n.d.
Iron	Fe	0.2 (0.02)
Lithium	Li	0 to 0.05
Magnesium	Mg	0 to 0.1 (0.0005)
Manganese	Mn	0 to 0.01
Phosphorous	P	0.01 to 0.1
Potassium	K	0 to 0.001 (0.01)
Silver	Ag	n.d.
Sodium	Na	0.04 (0.05)
Titanium	Ti	0 to 0.1 (0.05)
Uranium	U	n.d.
Zirconium	Zr	0 to 0.001

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