

CeramOptec®

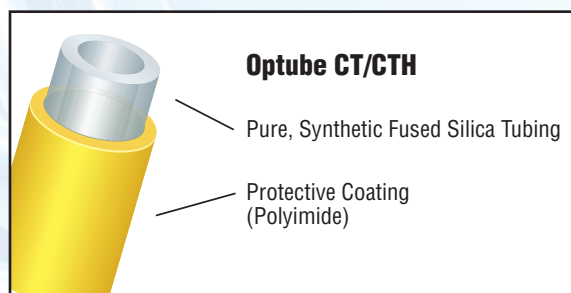
Innovative Fiber Optics...Every Step of the Way™



CeramOptec's innovative Optube flexible silica capillary tubing offers the highest temperature capability in the industry at 400°C (Optube CTH). With impressive tensile strength and pressure resistance, Optube CT and CTH are ideal for several applications, from gas chromatography to electrophoresis. We offer our high quality capillary tubing in a variety of sizes, as well as custom designs to meet your specifications.

Features

- High tensile strength (>600 kpsi)
- Temperature resistance to 375°C (Optube CT) and 400°C (Optube CTH)
- Pressure resistant to 4500 psi
- Chemical resistance (polyimide coating)
- Smooth inner surface



Properties

- Pure, synthetic fused silica
- High OH content for easy surface bonding to siloxanes
- Standard proof test: 100 kpsi
- Intrinsic strength > 600 kpsi

Applications

- Gas chromatography
- Liquid chromatography
- Electrophoresis
- Fiber splices and other fiber optic components
- Precision casting inserts
- High pressure miniature hydraulics

Available Dimensions

Inner diameters:	2 µm to 2500 µm
Wall thickness:	10 µm to 1 mm
Lengths:	0.25 mm to > 1000 m
End finish:	Cleaved or polished
Diameter tolerance:	To ± 1 µm

Dimensions of Optube CT (375°C) and Optube CTH* (400°C)

Product Code	Inner Diameter (µm)	Outer Diameter (µm)	Coating Thickness (µm)
CT 2150	2 ± 1	150 ± 6	12 ± 4
CT 5150	5 ± 1	150 ± 6	12 ± 4
CT 5363	5 ± 1	363 ± 12	20 ± 5
CT 10150	10 ± 2	150 ± 6	12 ± 4
CT 10363	10 ± 2	363 ± 12	20 ± 5
CT 15150	15 ± 2	150 ± 6	12 ± 4
CT 15363	15 ± 2	363 ± 12	20 ± 5
CT 2090	20 ± 3	90 ± 6	12 ± 4
CT 20144	20 ± 3	144 ± 6	12 ± 4
CT 20363	20 ± 3	363 ± 12	16 ± 4
CT 25144	25 ± 3	144 ± 6	12 ± 4
CT 25363	25 ± 3	363 ± 12	16 ± 4
CT 30144	30 ± 3	144 ± 6	12 ± 4
CT 30363	30 ± 3	363 ± 12	16 ± 4
CT 40105	40 ± 3	105 ± 6	12 ± 4
CT 40144	40 ± 3	144 ± 6	12 ± 4
CT 40363	40 ± 3	363 ± 12	16 ± 4
CT 50144	50 ± 3	144 ± 6	12 ± 4
CT 50186	50 ± 3	186 ± 6	12 ± 4
CT 50363	50 ± 3	363 ± 12	12 ± 4
CT 75144	75 ± 3	144 ± 6	12 ± 4
CT 75193	75 ± 3	193 ± 7	12 ± 4
CT 75363	75 ± 3	363 ± 12	16 ± 4
CT 100164	100 ± 6	164 ± 6	12 ± 4
CT 100193	100 ± 6	193 ± 7	12 ± 4
CT 100283	100 ± 6	283 ± 7	16 ± 4
CT 100363	100 ± 6	363 ± 12	16 ± 4
CT 150363	150 ± 6	363 ± 12	16 ± 4
CT 180340	180 ± 10	340 ± 10	16 ± 4
CT 250350	250 ± 12	350 ± 15	16 ± 4
CT 320430	320 ± 12	430 ± 20	16 ± 4
CT 542665	542 ± 12	665 ± 25	16 ± 4
CT 530700	530 ± 12	700 ± 25	16 ± 4
CT 700850	700 ± 12	850 ± 25	16 ± 4

*Note: For Optube CTH (400°C), prefix product code with “CTH” instead of “CT.”

Notes:

Custom sizes are available upon request.

CeramOptec strives to ensure the accuracy of all information provided; however, we imply no warranties and disclaim any liability in connection with the use of this information.

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CeramOptec was founded in 1986 and today is a global leader in the production of stock and custom silica / silica, plastic-clad silica, and hard polymer-clad silica optical fibers; fused capillary tubing; DPSS lasers; diode modules; and low loss bundles and assemblies for UV, VIS, and IR transmission, medical laser delivery, sensors, plasma fusion, and spectroscopy.

With several facilities worldwide, we are able to provide our customers with local, prompt, and reliable service and products. By maintaining complete control over the entire manufacturing process—from preform manufacturing to finished fiber product—we are able to provide the highest quality control, custom solutions, and competitive pricing to our customers.

Please visit <http://www.ceramoptec.com> for more information.

CeramOptec is a subsidiary of biolitec™ AG.

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