

Silonite[®] Coated TUBING



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When applied to the inside of stainless steel tubing, Silonite[®] greatly improves chemical inertness. Combining the durability of stainless steel with the inertness of fused silica creates the perfect solution for real world chemical applications.

Unlike other coatings, Silonite[®] provides a thinner, higher density barrier that prevents chemicals from reaching the metal oxides on the interior tubing walls. The smooth coating results in an even, laminar flow, creating a lower pressure drop while discouraging the deposition of high molecular weight contaminants. This helps to maintain a clean flowpath while preserving the inert, non-adsorptive properties of the tubing.

Silonite[®] tubing, like fused silica capillary tubing, can be further deactivated by adding a cross-linked layer of methyl siloxane on the surface. Our deactivated Silonite[®] tubing has a very thin, low-bleed coating that improves inertness for chromatography applications. Polar and reactive compounds show better GC injection profiles, with reduced tailing.

Features

- ◀ Inert Silonite[®] (fused silica) coating prevents interaction with reactive metal oxides on tubing walls
- ◀ Flexible, will not crack upon bending
- ◀ Better recovery of reactive organic compounds containing oxygen, nitrogen, sulfur and phosphorous
- ◀ Smooth coating process reduces internal surface area and porosity of tubing
- ◀ Batch tested for inertness
- ◀ Temperature range: -273° to 400° C

Applications

- ◀ GC transfer lines
- ◀ Sample loops
- ◀ Chemical analyzers
- ◀ GC inlet systems (P&T, Headspace, Thermal Desorption)
- ◀ Sulfur compound analysis

Part No.	Description/Size (OD x ID)
15-87020	1/32" x 0.02"
15-87020D	1/32" x 0.02" Deactivated
15-87120	1/16" x 0.02"
15-87120D	1/16" x 0.02" Deactivated
15-87140	1/16" x 0.04"
15-87140D	1/16" x 0.04" Deactivated
15-87280	1/8" x 0.085"
15-87280D	1/8" x 0.085" Deactivated
15-87421	1/4" x 0.21"
15-87421D	1/4" x 0.21" Deactivated

O.D.	Min. Band Width
1/32	0.75"
1/16	1.0"
1/8	2.0"
1/4	4.0"