

Round Tubes



VETRONITE SGS T

- Very good heat resistance
- Low water absorption
- Very high tracking resistance
- Self-extinguishing V-0 acc. to UL 94
- SI GC 21 acc. to DIN EN 61212-3-1
- Comparable to NEMA LI-1 G-7

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	120	EN 61212-2
E-Modulus	MPa	12000	ISO 178
Compressive strength axial	MPa	70	EN 61212-2
Cohesion between layers	MPa	110	EN 61212-2
Electrical properties			
Insulation resistance after immersion in water	Ohm	1.0E+12	DIN EN 62631-3-3
Breakdown voltage // 90°C in oil	kV	70	IEC 60243-1
Electric strength ⊥ 90°C in oil	kV/mm	9	IEC 60243-1
Comparative tracking index (CTI)		500	IEC 60112
Thermal properties			
Temperature index (TI)	°C	220	IEC 60216
Physical properties			
Density	g/cm ³	1.7 – 1.85	ISO 1183
Water absorption (24 h 23°C)	mg/cm ²	1.0	ISO 62
Other properties			
Flammability		V-0	UL 94

Description

Vetronite SGS T consists of silicone resin with a reinforcement of glass cloth.

RoHS Directive

Hazardous products listed in the EU-directive 2011/65/EU (RoHS-directive), annex II and amendment 2015/863/EU are not used as ingredients in this material.

Colour

White

Application

Insulation tubes in high-voltage applications at elevated temperatures
Electronic applications
High frequency technology
Electrical insulation, loaded with tracking current

Form of delivery

This type will be supplied in form of tubes and machined parts out of tubes. The standard diameter range lasts from 5 mm to 450 mm.

The length is related to the diameter, standard length approx. 1000 mm. Other diameters and lengths on request.

Tolerances acc. to DIN EN 61212-3-1

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.

VRI Composites custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

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