

Round Tubes

VETRONITE G11 T



- Outstanding high mechanical strength also at elevated temperatures
- Excellent electrical properties at high relative humidity
- Good dissipation factor and electric strength properties at both dry and humid conditions
- EP GC 22 acc. to DIN EN 61212-3-1
- Certified acc. to EN 45545, R23

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	350	EN 61212-2
E-Modulus	MPa	19000	ISO 178
Compressive strength axial	MPa	220	EN 61212-2
Cohesion between layers	MPa	500	EN 61212-2
Electrical properties			
Insulation resistance after immersion in water	Ohm	3,0E+8	DIN EN 62631-3-3
Breakdown voltage // 90°C in oil	kV	75	IEC 60243-1
Electric strength ⊥ 90°C in oil	kV/mm	15	IEC 60243-1
Permittivity at 1 MHz		5,2	IEC 60250
Dissipation factor at 1 MHz		0,04	IEC 60250
Physical properties			
Density	g/cm ³	1,8	ISO 1183
Water absorption (24 h 23°C)	mg/cm ²	0,5	ISO 62
Thermal properties			
Temperature index (TI)	°C	180	IEC 60216

Description

Vetronite G11 T consists of high temperature epoxy 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

Yellow brown, gets a greenish touch under influence of UV-light

Application

Machine construction
Cryogenics
Chemical industry
Galvanic
Electro-technics
Traction transformer
Generators
Particle accelerators

Form of delivery

This type will be supplied in form of tubes and machined parts out of tubes. The standard diameter range lasts from 3.5 mm to 450 mm.

The length is related to the diameter, standard length approx..1.000 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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