

Round Tubes

ALTHERM 550 T



- Retains mechanical strength at elevated temperatures
- Excellent electrical properties at high relative humidity
- Good electric strength
- Low water adsorption
- Excellent flammability classification

	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)	V	500	IEC 60112
Physical properties			
Density	g/cm ³	1.80	ISO 1183
Water absorption (24 h 23°C)	mg/cm ²	1.0	ISO 62
Thermal properties			
Temperature index (TI)	°C	220	IEC 60216
Other properties			
Flammability		V-0	UL 94

Description

Altherm 550 T is a composite tube made of glass fabric with high temperature silicone resin material especially developed for applications in aluminium smelters.

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

Different parts of aluminium smelters:

- busbar electrical insulation
- superstructure support
- pot room thermal and electrical insulation
- pot conductor insulation

Form of delivery

This type will be supplied in form of tubes and machined parts out of tubes.

Diameter ranges from 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.

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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.