



ALPHA / AVS
engineered composites

**Forming the World's Most Comprehensive Source
for High Temperature Solutions**

**TDS-108
October 2024**

AVSIL[®] BT18T SILICA FABRIC

Product Description

AVSIL[®] BT18T Silica Fabric is a lightweight high silica content fabric that is engineered to withstand continuous operating temperatures up to 1800°F (982°C). **AVSIL[®] BT18T Silica Fabric** is typically used for the fabrication of high temperature textile products for industrial and automotive applications. The broken twill weave improves handling properties over the conventional satin weave construction. **AVSIL BT18T Silica Fabric** is treated with a proprietary surface finish to improve handling and thermal properties.

Applications

AVSIL[®] BT18T Silica Fabric is typically used in the fabrication of textile parts for a variety of end use applications consisting of exhaust insulation wraps, stress relief blankets, thermal pads, protective screens/covers, furnace curtains, insulation mats and cable tray wraps.

Technical Data Properties

	<u>AVSIL[®] BT18T</u>
Silicon Dioxide Content	≥95%
Weave Construction	Broken Twill
Nominal Weight: oz/yd ² (grams/m ²)	18 (610)
Thread Count	Warp - 48, Fill - 33
Nominal Tensile Breaking Strength (lbs.)	
• Warp	450
• Fill	200
Nominal Thickness: inches (mm)	0.024 (0.61)

Notes:

- 1. Roll length is 50 yards, and roll width is 36 inches (91.44 cm).**
- 2. This silica fabric is made from amorphous silica filaments and contains no asbestos or ceramic fibers.**

Alpha Engineered Composites cannot predict all the potential applications for which customers may attempt to use the **AVSIL[®] BT18T Silica Fabric**. **AVSIL[®] BT18T Silica Fabric** will have varying degrees of effectiveness for each potential application depending on the maximum temperature attained, the length of use, and the amount of temperature fluctuation. If the customer has any questions regarding the use of **AVSIL[®] BT18T Silica Fabric** in a particular application, please contact Alpha Engineered Composites at (732) 730-1800 and we will provide a sample of the **AVSIL[®] BT18T Silica Fabric** for testing. This product is not warranted against injuries or damages of any kind caused by uses for which this product was not designed, intended, or tested by Alpha Engineered Composites.