



DATA SHEET

THERMAL DATA SHEET
THERMAL TECH & TEMP INC.

TTT-SIL-1800

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DESCRIPTION

TTT-SIL-1800 is a medium weight silica fabric, tan in color, with superior physical and thermal characteristics compared to traditional silica fabrics. ANSI/FM 4950 approved for welding curtains. This material can meet MIL C24576A Type 1.

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APPLICATIONS

TTT-SIL-1800 is intended for use in any application where high heat resistance and thermal protection is required, such as furnace curtains, stress relieving blankets, welding blankets and other heat shielding applications.

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ADVANTAGES

The unique properties of TTT-SIL-1800 make it an extremely cost-effective alternative to regular silica fabrics with superior physical properties, such as abrasion resistance and breaking strength, as a bonus. The vermiculite coating that is on TTT-Sil performs a dual task. Initially it reduces the ability of the fabric to fray making it more workable through the cutting and sewing processes. The even greater duty of the vermiculite coating is to dissipate the heat across the fabric rather than allow heat from molten slag to fester in a single point allowing greater protection from molten slag going through the fabric. These factors along with the higher melting point of the amorphous silica allow TTT-SIL-1800 to be the fabric of choice where high heat resistance is desired.

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PROPERTY DATA

Characteristics:

Weight	ASTM-D-3776
Thickness	ASTM-D-1777
Breaking Strength	ASTM-D-579
Temperature Resistance	N/A
Base Fabric and Weave	N/A
Color:	N/A
Abrasion Resistance	MIL-C-24576A
Width	N/A
Length	N/A

Method:

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Thickness	ASTM-D-1777
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Width	N/A
Length	N/A

English Values:

18.0 oz/sy +/- 10%
.030" +/- 10%
Warp: 250 lbs/in
Fill: 100 lbs/in
Continuous Use: 1800°F
Melting: 3000°F
Linear Shrinkage: 5% at 1800°F
Silica/8 Harness Satin
Light Tan/Vermiculite
20 Cycles/minute
35 inches
50 yards

Metric Values:

612 g/m +/- 10%
0.762 mm +/- 10%
Warp: 44.6 kg/cm
Fill: 17.9 kg/cm
Continuous Use: 982°C
Melting: 1649°C
5% at 982.22°C

***All values are nominal unless otherwise specified. All statements herein are expressions of opinion that we believe to be accurate and reliable, but are presented without guaranty or responsibility on our part. Statements concerning possible use of our products are not intended as recommendations for their use alone or in combination with any materials or elements to infringe any patents. No patent warranty of any kind, express or implied, is made or intended.