



WHEN THE **HEAT** IS ON, KEEP YOUR COOL WITH **AVS!**

TDS-11
May 2019

AVSIL® 168CH FABRICATION GRADE SILICA FABRIC

Product Description

AVSiI® 168CH Fabrication Grade Silica Fabric is a medium weight high silica (>95% SiO₂) content fabric that is engineered to withstand continuous operating temperatures up to 1800°F (982°C). **AVSiI® 168CH Fabrication Grade Silica Fabric** is typically used for the fabrication of high temperature textile products for industrial and automotive applications. **AVSiI® 168CH Fabrication Grade Silica Fabric** is typically utilized for fabricating tube seals, exhaust insulation wraps, stress relief blankets, protective screens/covers, and furnace curtains where continuous temperature thermal performance is required.

Features

- Fireproof
- High Strength and Flexibility
- Easily Sewn and Fabricated
- Excellent continuous thermal performance

Benefits

- Outstanding thermal protection.
- Multi-functional fabric for textile fabrication and welding protection.
- Remains pliable after exposure to continuous temperatures up to 1800°F (982°C)

Technical Data Properties

Silicon Dioxide Content

Nominal Weight: oz./yd² (grams/m²)

Nominal Areal Shrinkage (%)

Nominal Thickness: inches (mm)

Weave Construction

Melt Point: °F (°C)

AVSIL® 168CH Fabrication Grade

≥95%

32 (1050)

13

0.042 (1.07)

12 Harness Satin

3000°F (1649°C)

Tensile Strength, PLI Initial

Warp 710

Fill 400

After 3 hrs. @ 1800°F (Remains Very Flexible)

Warp 155

Fill 75

NOTES:

1. Standard roll length is 50 yards and roll width is 36 inches.
2. A proprietary surface finish is applied for improved handling properties and thermal performance at elevated temperature.
3. AVSiI® fabrics are amorphous silica textiles and contain no asbestos or ceramic fibers.
4. Shrinkage data represents areal shrinkage after 30 minutes of exposure time at 1800°F.

AVS Industries, LLC cannot predict all of the potential applications for which customers may attempt to use AVSiI® 168CH Fabrication Grade Silica Fabric. AVSiI® 168CH Fabrication Grade 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 AVSiI® 168CH Fabrication Grade Silica Fabric in a particular application, please contact AVS Industries, LLC at (302) 221-1720 and we will provide a sample of the AVSiI® 168CH Fabrication Grade 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 AVS Industries, LLC.