



SERVICING THE WORLD WITH HIGH TEMPERATURE TEXTILES

TDS – 27  
January 2014

## AVSIL COMMERCIAL PRE-SHRUNK TEXTILES

### Product Description

**AVSil 84S and AVSil 188S** are commercial grade pre-shrunk satin weave silica textiles. In addition to having the same thermal performance characteristics of standard AVSil fabrics, our AVSil Pre-Shrunk textiles also have low residual shrinkage. Pre-Shrunk textiles are intended for applications that require minimal areal shrinkage at high temperatures. **AVSil Pre-Shrunk fabrics** withstand extreme operating temperatures and can be used or configured **as panel, insulation, furnace zone curtains, forging insulation, stress relief blankets, hot chemical filters, and reinforcement materials for composites and resins.** AVSil fabrics are used extensively in the Power Generation, Aerospace, Electronics, Chemical Processing and Metal Processing industries.

### Features

- Resists Penetration of Molten Metal
- Fireproof
- Excellent Insulating Properties
- Low Areal Shrinkage
- Resistant to Most Corrosive Chemicals

### Benefits

- Protects Equipment and Personnel
- Protects Against Hot Work Fires
- Lower Utility Costs
- Dimensional Stability at Extreme Temperatures
- Can Be Used In Severe External Environment

### Technical Data

NOMINAL PROPERTIES	AVSIL 84S	AVSIL 188S
Silicon Dioxide Content	98%	98%
Weight (oz/yd <sup>2</sup> )	19	38
Thickness (inches)	0.028	0.052
Areal Shrinkage @ 1800°F	<3%	<3%
Tensile Strength, Warp, lb./in.	100	175
Fill, lb./in.	65	110

#### Notes:

1. Roll length is 50 yards, and nominal roll widths are 34.5 inches. Other roll lengths are available.
2. AVSil Pre-Shrunk Textiles are white in color.
3. Shrinkage data represents areal shrinkage after 30 min. of exposure time at 1800° F.
4. Pre-Shrunk AVSil textiles have no topical coating applied.
5. AVSil fabrics are amorphous silica textiles, and contain no asbestos or ceramic fibers.

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