



LEADERS IN HIGH PERFORMANCE TEXTILES FOR THERMAL PROTECTION

TDS – 27
July 2018

AVSIL® PRE-SHRUNK SILICA FABRICS

Product Description

AVSil® 84S and AVSil® 188S are pre-shrunk satin weave silica fabrics that have a low areal shrinkage. **AVSil® 84S and AVSil® 188S** can handle the same operating temperatures as our standard AVSil® silica fabrics and are intended for applications that require minimal areal shrinkage at high temperatures. **AVSil® pre-shrunk silica fabrics** can 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® silica 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
- 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 Properties

	AVSil® 84S	AVSil® 188S
Nominal Silicon Dioxide Content (%)	98	98
Nominal Weight: oz/yd ² (grams/m ²)	19 (644)	38 (1237)
Nominal Thickness: inches (mm)	0.028 (.71)	0.052 (1.32)
Areal Shrinkage @ 1800°F	<4%	<4%
Tensile Strength, Warp, lb./in.	100	175
Fill, lb./in.	65	110
Melting temperature, °F/°C	3,000 (1649)	3000 (1649)

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. Areal 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.
6. Pre-shrunk silica fabrics may show reduced flexibility if exposed to intermittent temperatures above 1800°F.

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