



LEADERS IN HIGH PERFORMANCE TEXTILES FOR THERMAL PROTECTION

TDS-15  
July 2018

## AVSIL® SILICA TWISTED AND BRAIDED ROPE

### Product Description

**AVSIL® Silica Twisted (TR) and Braided (BR) Ropes** are silica ropes used primarily as packing for high temperature sealing applications. The high density of **AVSIL® Braided (BR) Ropes** improves overall performance in all thermal applications. **AVSIL® Silica Ropes** withstand extreme temperatures up to 1,800°F (982°C) and are used as tadpole tape cores, furnace door gaskets, high temperature caulking, and coke oven door seals. Silica ropes are used extensively by the Power Generation, Furnace, Oven, Refinery, Construction, Shipbuilding, Welding and Metal Processing Industries.

### Features

- Resists Penetration of Weld “Slag”
- Fireproof
- Compressible
- Excellent Insulating Properties
- Protects Equipment in Welding Applications
- Reduces Risk of “Hot Work” Fires
- Great Gasket Seal in High Temperature Applications
- Lower Utility Costs

### Sizing Data

#### BR Braided Rope

BR-H-1/4”  
BR-H-3/8”  
BR-H-1/2”  
BR-H-5/8”  
BR-H-3/4”  
BR-H-1”  
BR-1 3/8”

#### TR Twisted Rope

TR-H-1/4”  
TR-H-3/8”  
TR-H-1/2”  
TR-H-5/8”  
TR-H-3/4”  
TR-H-1”

### Technical Properties

Silicon Dioxide Content

Nominal Roll Length ft. (meters) \*for rolls under 1”

Service Temperature, °F (°C)

#### Braided & Twisted Rope

96% or Greater

100 (30.48)

Up to 1,800 (982)

#### Notes:

1. Nominal roll length for 1” Braided & Twisted Rope is 75 ft. BR-1 3/8” is uncoated and supplied in nominal roll length is 45 ft.
2. Roll length tolerance is +/- 10%. Rolls may consist of three pieces. Minimum piece length is 10 feet (3.05 meters). Other roll lengths are available upon request.
3. A light hydrocarbon coating is applied to all ropes except 1 3/8” and 2”.
4. AVSIL® Silica Twisted (TR) and Braided (BR) Ropes are made of amorphous silica and contain no asbestos or ceramic fibers.

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