



LEADERS IN HIGH PERFORMANCE TEXTILES FOR THERMAL PROTECTION

TDS – 34
July 2018

AVS SEWING THREAD SIS-18/PL

Product Description

AVS Sewing Thread SIS-18/PL is a high temperature resistant thread made by twisting together S-2 Fiberglass and one strand of Inconel Steel Wire. **AVS Sewing Thread SIS-18/PL** is engineered for use in the manufacture of high temperature textile parts

Applications

AVS Sewing Thread SIS-18/PL is intended for high temperature sewing applications with service temperatures up to 1800°F (1000°C) requiring good seam strengths. This thread is ideal for sewing our FLXGLAS® HT specialty treated Fiberglass Fabrics and our standard AVSil® Silica Fabrics. Fabricated textile products include exhaust thermal wraps, removable covers, tube seals, blankets, insulation pads, and curtains.

Technical Data Properties

	Value
Construction	S-2 Fiberglass/Inconel Wire Strand
Nominal Coating Level	PTFE, 15%
Lubrication	Silicone Oil
Nominal Diameter: inches (mm)	0.019 (0.48)
Tensile	25 lbs.
Final Twist	“z”
Yield	1975 yds./lb.

Notes:

1. The PTFE and Silicone oil will burn off at temperatures over 500°F (260°C)
2. The S-2 fiberglass will melt at temperatures over 1400°F (760°C)
3. The Inconel wire will maintain good strength at temperatures up to 2000°F (1093°C)

AVS Industries cannot predict all of the potential applications for which customers may attempt to use **AVS Sewing Thread SIS-18/PL**. **AVS Sewing Thread SIS-18/PL** 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 **AVS Sewing Thread SIS-18/PL** in a particular application, please contact AVS Industries at (302) 221-1720 and we will provide a sample of the **AVS Sewing Thread SIS-18/PL** 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.