



LEADERS IN HIGH PERFORMANCE TEXTILES FOR THERMAL PROTECTION

**TDS – 115
July 2018**

AVS SEWING THREAD SI3S-24/PL

Product Description

AVS Sewing Thread SI3S-24/PL is a twisted “S-2” Fiberglass Fiber with 3 Ends of Inconel Wire. **AVS Sewing Thread SI3S-24/PL** is lubricated with PTFE and silicone oil to improve handling and sewing properties.

Applications

AVS Sewing Thread SI3S-24/PL is intended for high temperature sewing applications with service temperatures up to 1400°F (760°C) for the S-2 Fiberglass and up to 2000°F (1093°C) for the Inconel wire resulting in good seam strengths. The thread is ideal for sewing our standard fiberglass fabrics, our FLXGLAS® HT specialty treated fiberglass fabrics and our standard AVSil® Silica Fabrics. Fabricated textile products include removable covers, thermal wraps, tube seals, blankets, insulation pads, and curtains.

Technical Data Properties

	Value
Construction	Twisted S-2 Glass Fiber with 3 Ends Inconel Wire
Nominal Coating Level	PTFE, 12%
Lubrication	Silicone Oil
Nominal Diameter: inches (mm)	0.024 (0.61)
Elongation	< 5%
Color	Natural/Tan
Tensile	25 lbs. min.
Yield	1000 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 SI3S-24/PL**. **AVS Sewing Thread SI3S-24/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 SI3S-24/PL** in a particular application, please contact AVS Industries at (302) 221-1720 and we will provide a sample of **AVS Sewing Thread SI3S-24/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.