



WHEN THE **HEAT** IS ON, KEEP YOUR **COOL** WITH **AVS!**

**TDS-92**  
**May 2019**

## **AVS SEWING THREAD KPS3**

### **Product Description**

**AVS Sewing Thread KPS3** is a high strength Kevlar and Stainless-Steel sewing thread made from continuous filament Kevlar yarns that incorporate 3 strands of fine 304 Stainless-Steel wire. The Kevlar is PTFE coated to improve the handling properties of the sewing thread for improved runnability on industrial sewing machines.

**AVS Sewing Thread KPS3** sewing thread is available with or without a silicone-based lubricant to aid in use during textile fabrication operations.

### **Application**

**AVS Sewing Thread KPS3** is intended for the fabrication of textile products with service temperatures up to 400°F (204°C) requiring good seam strengths. The multiple strands of 304 Stainless Steel wire make this high strength thread ideal for the manufacture of specialty thermal pads for Aerospace, Automotive, and Industrial applications where strength is critical to meet design requirements.

### **Technical Data Properties**

Thread Style	Kevlar – Continuous Filament
Wire Construction	3 strands of 304 Stainless-Steel
Thread Coating	PTFE, Sintered
Lubrication, Silicone Oil	Available per Request
Nominal Thread Diameter: inches (mm)	0.013 (0.33)
Final Twist	Z- Directional
Nominal Thread Tensile Strength, lbs.	25 lb. @ 70°F
Nominal Yield, yds/lb.	3450
Color	Natural (Yellow/Gold)

### **NOTES:**

1. The PTFE coating will burn off at temperatures over 600°F(315°C)
2. Kevlar operating temperature limit to maintain moderate strength is 400°F (204°C)
3. Stainless steel will maintain good strength at temperatures up to 1600°F (982°C)
4. The average spool size is 1 pound.

AVS Industries cannot predict all of the potential applications for which customers may attempt to use **AVS Sewing Thread KPS3**. Numerous factors may affect the overall performance of **AVS Sewing Thread KPS3**. Operating conditions, fabric type, and sewing parameters will have an affect on seam strength. Please contact AVS Industries at (302) 221-1720 and we will provide a sample of **AVS Sewing Thread KPS3**. 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.