



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

**TDS-137**  
**May 2019**

## **AVS CERAMIC FIBER BLANKET INSULATION**

### **Product Description**

**AVS Ceramic Fiber Blanket Insulation** is made from 100% Refractory Ceramic Fiber (RCF) that are mechanically bonded into a flexible mat. **AVS Ceramic Fiber Blanket Insulation** is designed to withstand temperatures up to 2300°F (1260°C). Density is 8.0 lbs./ft<sup>3</sup>. The flexibility and handling properties of **AVS Ceramic Fiber Blanket Insulation** enables the product to be easily cut and fabricated into intricate design configurations. Excellent thermal strength enhances the product value-in-use.

### **Applications**

**AVS Ceramic Fiber Blanket Insulation** is typically used in refractory high temperature application or the fabrication of high temperature removable insulation covers for end use applications.

### **Typical Physical Properties:**

- |  |   |
|--|---|
| • Color  | Off-White                                       |
| • Classification Temperature, °F (°C)                | 2300°F (1260°C)                                 |
| • Continuous Use Temperature, °F (°C)                | 2000°F (1093°C)                                 |
| • Density, lbs./ft <sup>3</sup> (kg/m <sup>3</sup> ) | 8 lbs./ft <sup>3</sup> (128 kg/m <sup>3</sup> ) |
| • Thermal Shrinkage in 24 hrs., %                    | ≤3.0  |

### **Chemical Analysis, Weight % after Firing**

- |   |         |
|---|---------|
| • Al <sub>2</sub> O <sub>3</sub> (Alumina)      | 45 - 47 |
| • SiO <sub>2</sub> (Silica)                     | 53      |
| • Fe <sub>2</sub> O <sub>3</sub> (Ferric Oxide) | <0.4    |
| • K <sub>2</sub> O + Na <sub>2</sub> O          | <0.3    |
| • CaO + MgO                                     | <0.2    |

### **Thermal Conductivity – 8 lbs./ft<sup>3</sup> Density**

- |          |      |
|----------|------|
| • 500°F  | 0.42 |
| • 1000°F | 0.81 |
| • 1500°F | 1.43 |
| • 2000°F | 2.02 |

### **Product Designation**

- |               |                    |
|---------------|--------------------|
| • AVS CFB-200 | 2 Inch Thickness   |
| • AVS CFB-100 | 1 Inch Thickness   |
| • AVS CFB-50  | 0.5 Inch Thickness |

### **Roll Packaging for 1- inch (25 mm) Width**

- |                    |                               |
|--------------------|-------------------------------|
| • Thickness        | 1.0 inches (2.54 cm)          |
| • Width            | 24 inches (61cm)              |
| • Length           | 284 inches (720 cm)           |
| • Box Weight       | Nominal 35 pounds (15.88 kgs) |
| • Boxes per pallet | 16                            |

AVS Industries cannot predict all of the potential applications for which customers may attempt to use **AVS Ceramic Fiber Blanket Insulation**. **AVS Ceramic Fiber Blanket Insulation** 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 Ceramic Fiber Blanket Insulation** in a particular application, please contact AVS Industries at (302) 221-1720 and we will provide a sample of the insulation 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.