



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

TDS-139
May 2019

AVS WIRE INSERTED CERAMIC FABRICS

Product Description

AVS Wire Inserted Ceramic Fabrics CF27W2 and CF42W2 are high-quality aluminosilicate plain weave ceramic fabrics with **310 stainless steel (SS)** wire installed in both directions. Using increases the continuous use capability of the fabric by approximately 400°F. **CF27W2 and CF42W2** wire inserted ceramic wire inserted fabrics are reinforced with E-glass fiberglass yarn to improve the handling properties for fabrication.

Applications

AVS Wire Inserted Ceramic Fabrics CF27W2 and CF42W2 can be used or configured as protective screens, panel covers, or fabricated into specialty textile parts. These high temperature fabrics are typically used extensively in the Refractory, Refinery, and Steel Foundry, and Metal Processing industries.

Technical Data Properties

Nominal Weight: oz/yd² (g/m²)
Nominal Width: Inches (meters)
Stainless Steel Wire – 310SS
Roll Weight: lbs. (kg)
Thickness: Inches (mm)
Maximum 310SS Continuous Temperature: °F (°C)
Maximum 310SS Intermittent Temperature: °F (°C)
Melt Point of 310 Stainless Steel: °F (°C)
Maximum Ceramic Continuous Temperature: °F (°C)
Ceramic Melting Point : °F (°C)
Temperature Limit of Insert Glass: °F (°C)
Color:
Fiber Diameter:
Loss on Ignition: (%)
Thermal Conductivity: (W/m. k) @ 1832°F (1000°C)
Linear Shrinkage: 24hrs @ 2012°F (1100°C), %
Chemical Composition: (%)
Al₂O₃: 47-49 Al₂O₃+ SiO₂: 97- 99

AVS Wire Inserted Ceramic Fabrics

CF27W2	CF42W2
27 (920)	42 (1440)
39 (1)	39 (1)
2 Directions	2 Directions
53 (24)	99 (45)
0.07 (1.8 mm)	0.125 (3.2 mm)
2100 (1149)	2100 (1149)
1900 (1038)	1900 (1038)
2650 (1454)	2650 (1454)
2100 (1260)	2100 (1260)
3200 (1760)	3200 (1760)
1200 (650)	1200 (650)
White	White
3-4 (Micron - µm)	3-4 (Micron - µm)
18	18
<0.18	<0.18
3	3
Fe ₂ O ₃ : 0.2	K ₂ O+Na ₂ O: 0.2

NOTES:

1. Please take the necessary precautions when handling aluminosilicate fiber textile products. Repetitive inhalation over a long duration could lead to health-related issues. Please consult the Material Safety Data Sheet for additional safety and personal protective information.

AVS Industries, LLC cannot predict all of the potential applications for which customers may attempt to use **AVS Wire Inserted Ceramic Fabrics**. These fabrics 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 Wire Inserted Ceramic Fabrics** in a particular application, please contact AVS Industries, LLC at (302) 221-1720 and we will provide a sample of the **AVS Wire Inserted Ceramic Fabrics** 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, LLC.