



Flextech Engineering Inc.
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Product Description

Inconel reinforced cloth is for use in applications up to 2300 °F. It is comprised of ceramic fiber with Inconel wire carrier.



Inconel Reinforced Ceramic Data Sheet

Ceramic cloth with Inconel

Physical Characteristics

<u>Fiber Content</u>	<u>Ceramic/Inconel</u>
<u>Binder (carrier)</u>	<u>2%</u>
<u>Color</u>	<u>White</u>
<u>Weight</u>	<u>42 oz/sq yd</u>
<u>Thickness</u>	<u>.118"</u>
<u>Weave</u>	<u>Plain</u>
<u>Flexibility</u>	<u>Good</u>
<u>Electrical</u>	<u>Conductive</u>
<u>Chemical</u>	<u>Non-reactive</u>

Temperature Parameters

<u>Service Temperature</u>	<u>2000 °F</u>
<u>Maximum</u>	<u>>3000 °F</u>
<u>Thermal Conductivity at 1800 °F</u>	<u>2.16 Btu/in/hr/sqft/F</u>
<u>Fabric Shrinkage at 1800 °F (after 4 hours)</u>	<u>7%</u>

Performance Characteristics

<u>Break Strength (warp)</u>	<u>69 lbs</u>
<u>Break Strength (fill)</u>	<u>34 lbs</u>
<u>Tear Strength (warp)</u>	<u>10 lbs</u>
<u>Tear Strength (fill)</u>	<u>9 lbs</u>
<u>Flame Resistance</u>	<u>No Ignition</u>
<u>Afterglow</u>	<u>None</u>

Inconel reinforced ceramic cloth is developed for use in high temperature applications up to 2300 degrees F. It exhibits good resistance to abrasion and mechanical abuse and is wire reinforced for high strength retention at elevated temperatures. Vermacite* coating is applied to the yarns to increase abrasion resistance and flex cycle life. Typical applications include gaskets for furnaces and ovens, zoning curtains for charge doors in continuous ovens, and protection from molten metal splash.