

# Technical data- Aufrax®

## Ceramic fiber felt

AUFRAx Fiber Mat is a flexible mat produced from high-purity fiber wool and selected binders. The advanced manufacturing process ensures that this lightweight, flexible product delivers excellent tensile strength, low thermal conductivity, and outstanding performance. This product series is available in two grades—withstanding temperatures of 1260°C and 1430°C—and comes in thicknesses ranging from 3–25mm and widths of 610mm / 1220mm for customer selection.

### Features:

- Excellent high-temperature stability
- Low thermal conductivity
- Lightweight material
- Easy to cut, wrap, and shape
- Outstanding flexibility with high tensile strength

### Applications:

- Flexible Sealing Element
- Flexible High-Temperature Gasket
- Lining for Large Steel Ingot Molds
- Flexible High-Temperature Wrapping Material
- Expansion Joint Sealant



### Data sheet

Name	LD ( low density)	HD ( high density)	Z ( with Zr)
Classify temperature °C/Long time working temperature °C	1260/1150	1260/1150	1430/1350
Density kg/m <sup>3</sup>	180–220	200–300	180–250
Heat loss ( WT%)	≤10		
Linear Shrinkage Rate (after 24 hours at classification temperature)	≤4		
Tensile Strength (kPa)	≥170		
Chemical Composition ( Al <sub>2</sub> O <sub>3</sub> + SiO <sub>2</sub> )	≥93%	≥93%	+ZrO <sub>2</sub> ≥95%
Thermal Conductivity (W/mk average temperature)			
600 °C	0.08	0.11	
800 °C	0.12	0.14	0.15
1000 °C	0.16	0.19	0.21
1200 °C			0.29
Thickness	3–25	10–30	3–25

This product is a customized product with a minimum order quantity and a certain production lead time. Please contact the company's sales team. For actual usage recommendations and other product safety information, please refer to the Product Material Safety Data Sheet (MSDS).