

CeramiFlex LiB AEG1000

AWLiB AEG1000 CeramiFlex is manufactured using special fiber and aerogel materials. It adopts a proprietary formula based on the full - gradation gradient compounding technology and combines the in - situ aerogel generation technology. The product features excellent thermal insulation, high - temperature resistance, and anti - burn - through properties. It can also prevent the penetration of high - temperature ejecta from thermal runaway, providing better protection for electronics products, hot pipes and LNG devices etc...



Applications

Thermal insulation and energy conservation as well as anti-corrosion protection for oil pipelines;
Thermal insulation and energy savings for heating pipelines;
Thermal insulation and fireproofing for building exteriors;
High-temperature pipeline and equipment insulation in thermal power applications;
Cryogenic insulation for pipelines and equipment in LNG and other deep-cold applications;
Heat insulation and fire resistance in the new energy industry.

Good compression performance

As a insulation material , it can adapt to the expansion and contraction changes of hot components during hot and cold conditions

Easy to process

Available in variable thicknesses (customizable) and cut-to-size configurations for tailored application solutions

Product Name	LiB AEG1000 CeramiFlex
Continuous working temperature	$\leq 650^{\circ}\text{C}$
Color	White
Density, kg/m^3	190 ± 20
Combustion Performance	Anti-fire
Thermal Conductivity	Average Thermal Conductivity $\text{W}/(\text{m}\cdot\text{K})$
25 $^{\circ}\text{C}$	≤ 0.019
300 $^{\circ}\text{C}$	≤ 0.034
500 $^{\circ}\text{C}$	≤ 0.071
Vibration mass loss rate	$\leq 1.0\%$
Hydrophobic performance	$> 98\%$
Compression resilience rate	$> 90\%$
Tensile strength	$> 200\text{kPa}$
Standard Dimension (Width)	1000mm, 1500mm
Chemical Composition	SiO_2 ; Al_2O_3 ; Others
Standard Dimension (Thickness)	3-20mm



Excellent thermal insulation performance,
2-5 times more effective than traditional materials



Wide temperature resistance range
from -200°C to 1000°C



Class-A fireproof rating

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Outstanding Thermal Insulation
Extremely low thermal conductivity, effectively minimizing heat loss and improving energy efficiency.

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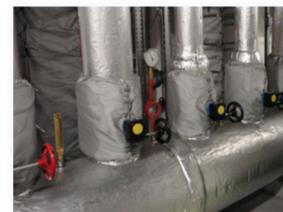
Ultra-Thin and Lightweight Design
Thinner and lighter, saving installation space and reducing load on support structures

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High-temperature Resistance & Fire Safety
Non-combustible, ensuring compliance with fire safety standards.



Equipment thermal insulation



Pipeline thermal insulation



New energy thermal protection



Aerospace