

AS17-s

Thermal Insulation Felt

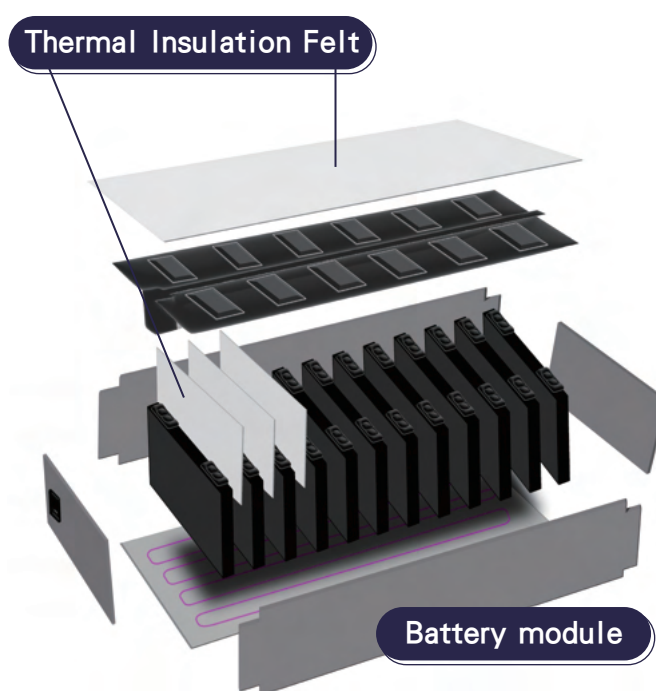
LiPOLY AS17-s thermal insulation material is a fiber composed of porous structure silica, aluminum oxide and other materials, featuring an extremely low thermal conductivity of 0.028 W/m·K. AS17-s is known for its ability to prevent thermal runaway, with a low density and the capability to withstand temperatures up to 1300°C. Its outstanding characteristics include excellent thermal insulation, superior noise reduction, insulation, cushioning, and fire resistance, making it renowned in various applications. AS17-s is utilized across many different fields, including aerospace, energy storage, military, new energy, automotive, firefighting, and rail transportation. Application scope of AS17-s Continuously expanding, as the technology further develops, we will see more applications in emerging fields in the future, and these applications will continue to drive the importance of its application in modern industry and life.

■ FEATURES

- / Excellent thermal insulation performance, with a thermal conductivity of 0.028 W/m·K
- / Exceptional thermal stability, suitable for long-term use in environments up to 1300°C
- / Good aging resistance
- / High friction coefficient and stability, providing long-term physical support for various substrates
- / Complies with RoHS and REACH standards
- / Available in both rolls and sheets
- / Cotton felt feeling on surface

■ TYPICAL APPLICATION

- / Industrial applications, such as industrial industry, EV related (battery modules, electromagnetic cabin fireproof and thermal insulation layer, engine compartment fireproof and thermal insulation layer, body flame retardant and thermal insulation layer, seat flame retardant lining dashboard fireproof and thermal insulation layer)



■ TYPICAL PROPERTIES

PROPERTY	AS17-s	UNIT	TEST METHOD
Color	White	-	Visual
Thickness	Customized	mm	ASTM D374
Density	3.0	g/cm ³	ASTM D792
Water absorption	0	%	ASTM D570
Application temperature	-60~1300	°C	-
Short time temp.@30sec	1650	°C	-
TML(wt%)	0.02	-	Internal Test Method
Outgassing CVCM (wt%)	0.04	-	Internal Test Method
ROHS & REACH	Compliant	-	-
THERMAL			
Thermal conductivity	0.028	W/m·K	ASTM D5470