



SmithLamina™

Magnetic Laminate

Product

It is a magnetic laminate that consists of glass cloth, iron powder, and an epoxy based resin system. It possesses excellent magnetic conductivity combined with high mechanical strength. This material is commonly used for the fabrication of slot wedges for high-voltage induction motors.

Fabrication

Smith Therm fabricates all kind of insulation materials according to the drawings and specification provided by customers.

TECHNICAL DATA

Key Characteristics	Units	Typical Values
Standard Colour		Grey
Density	g/cc	3.5
Resin system		Epoxy
Flexural Strength 23° C 150° C	Psi (MPa)	21,000 (145)
17,000 (117)		
Iron Content	%	75
Glass Content	%	7
Resin Content	%	18
Heat Resistance		Class F - 155°C

All values are attributes of the used raw materials.

The physical data contained in this table are typical values. They are obtained on test specimens under specific conditions and represent average values of a large number of tests. The results obtained on these tests specimens cannot be applied to finished parts without reservations, as behaviour is influenced by processing and shaping.