Laminate

VETROFERRITE

- **High pressure laminate with very good magnetic permeability**
- **High mechanical strength also at operating temperature**
- **Temperature class F**

	Unit	Value	Test norm
Mechanical properties			
Flexural strength	MPa	300	ISO 178
E-modulus	MPa	17000	ISO 178
Flexural strength at 150°C / 1h	MPa	200	ISO 178
E-modulus at 150°C / 1h	MPa	13000	ISO 178
Compressive strength⊥, at 23°C	MPa	400	ISO 604
Electrical properties			
Rel. permeability at induction 0.3 Tesla		3.4	
Rel. permeability at induction 0.5 Tesla		2.9	
Rel. permeability at induction 0.7 Tesla		2.4	
Magnetic induction at field intensity of 1000 A/cm		0.5	
Magnetic induction at field intensity of 2000 A/cm		0.8	
Magnetic induction at field intensity of 3000 A/cm		1.1	
Thermal properties			
Temperature index (TI)	°C	155	IEC 60216
Glass transition temperature	°C	> 150	IEC 1006
Linear expansion coefficient //	1.0E-6/K	23	ISO 11359-2
Physical properties			
Density	g/cm^3	3.5 +/- 0.25	ISO 1183

Description
Vetroferrite is a laminate based on glass fabric and high temperature epoxy resin with high content of iron powder (approx. 70%) as additive.

RoHS Directive
Hazardous products listed in the EU-directive 2011/65/EU (RoHS-directive), annex II and amendment 2015/863/EU are not used as ingredients in this material.

Color
Dark grey

Applications
Magnetic slot wedges

Form of delivery
Sheet formats 1170 x 1070 mm
Size tolerance 0 / - 30 mm

Thickness range 0.6 to 15 mm
Thickness tol. – 0/ +0.8 mm (not grinded)

Also available as panels or machined slot wedges.

Machining
Machining with carbide or diamond tools.

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.

VRI Composites custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

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