

Laminates

VETROFERRIT

- High Pressure Laminate with good magnetic permeability
- High mechanical strength

General description

Vetroferrit is laminate based on epoxy resin and glass fabric with iron powder (approx. 70%) as additive.

Colour

greyblack

Application

Magnetic slot wedges

Former denominations

Vetroferrite
Vetroferrit 432.20

Form of delivery

Sheet sizes 1170 x 1070 mm, for bigger demand also 2070 x 1070 mm
Tolerance of formats 0 / - 30 mm
Thickness in range of 2 to 7 mm
Thickness tolerance - 0 / + 0,8 mm
Ground tolerance - 0 / + 0,2 mm

Material also available as cut to size panels and machined slot wedges acc. to drawing.

Processing

Machining with carbide or diamond tools.

The product properties set forth in this data sheet are based on the results of testing of typical material produced by the affiliated companies of Von Roll Holding Ltd. (underneath referred as Von Roll). Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. Von Roll does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. Von Roll expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. Von Roll makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Von Roll shall in no event be liable for incidental, exemplary, punitive or consequential damages.

		Value	Test norm
Mechanical properties			
Flexural strength	MPa	180	ISO 178
Flexural strength at 150°C / 1h	MPa	150	ISO 178
Modulus of elasticity in flexure at 23°C, flatwise	MPa	15000	ISO 178
Modulus of elasticity in flexure at 150°C, flatwise	MPa	10500	ISO 178
Electrical properties			
Rel. permeability at induction 0,3 Tesla		3.85	
Rel. permeability at induction 0,5 Tesla		3.50	
Rel. permeability at induction 0,7 Tesla		2.8	
Magnetic induction at field intensity of 1000 A/cm	Tesla	0.55	
Magnetic induction at field intensity of 2000 A/cm	Tesla	0.90	
Magnetic induction at field intensity of 3000 A/cm	Tesla	1.20	
Volume resistivity	Ω mm ² /m	>1.0E+6	IEC 60093
Thermal properties			
Temperature index (TI)	°C	155	IEC 60216
Coefficient of thermal expansion	1.0E-6 / K	22/24/54 (x/y/z)	DIN 53752
Thermal conductivity	W/m.K	1.0	DIN 52612
Physical properties			
Density	g/cm ³	3.5 + - 0.2	ISO 1183
Glass transition temperature	°C	>150	IEC 1006