

Laminates

VETROTHERM

- ► Asbestos free
- Low heat conductivity
- Excellent tolerances with respect to parallelism
- Easy to machine
- Long life expectancy
- Low water absorption
- Good hydrocarbon stability
- Good chemical stability
- Excellent mechanical durability
- Very good electrical properties

General description

Von Roll offers a complete range of temperature resistant materials with well established performance.

The low thermal conductivity of our products allows to achieve substantial energy costs savings. As a result of the very low water absorption and chemical stability, there is an increased life expectancy of the thermal insulation materials offered by Von Roll. The products are based on glass fabric, glass roving, glass mat and mica paper as well as high temperature resistant resins. Our products are free of asbestos, high temperature resistant, and possess a good mechanical resistance even at elevated temperature. From a mechanical point of view, these materials can be easily machined. In addition to our CNC capabilities in our fabrication centers, we also can drill, turn, sand and in general meet all customer requirements in our modern machining centers. By sanding the pressed sheets, we are able to achieve tight thickness tolerances and parallelism.

Call our customer or technical departments for specific information. Our departments will be able to recommend the optimal use of the products and to provide the technical assistance you may need.

RoHS Directive

Hazardous products listed in the EU-directive 2002/95/CE (ROHS-directive), §4 section 1, are not used as ingredients in this material.

Application

Insulation for presses, thermal machined insulator parts, insulation of die-casting machines and presses, glass industry, cast rubber molds,...

Form of delivery

Sheet sizes of 2070x1070 and for bigger demand also 1170x1070mm Sheet size tolerances: -30mm

Standard thicknesses : from 6mm to 40mm. For other please consult our sales department. Sheets sanded both sides.

Thickness tolerances DIN ISO 2768-1 : < or = 12mm = +/- 0,1mm above = +/-0,10%





		Value	Test norm
Mechanical properties			
Flexural strength	MPa	500	ISO 178
Compressive strength at 23°C, flatwise	MPa	650	ISO 604
Compressive strength at 200°C, flatwise	MPa	400	ISO 604
Electrical properties			
Flatwise electrical strength	kV/mm	10	IEC 60243-1
Physical properties			
Density	g/cm³	2.0 ±0.1	ISO 1183
Water absorption 24h 23°C	%	0.05	ISO 62
Thermal properties			
Heat resistance	°C	240	•
Maximum heat resistance (for short periods)	°C	280	
Thermal conductivity	W/m.K	0.24	DIN 52612
Coefficient of linear expansion //	K ⁻¹	10.10 ⁻⁶	VDE 0304

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.

