

# Insulating Products



## Glass Fibre Mats needed

### Information

Technical insulating material for high and low temperatures as well as sound insulation.

This needed textile mat is made of 100 % E-glass fibres according to DIN 1259. Because of the needle-felting techniques no chemical binders or threads are necessary. Due to the thickness of the glass fibres of approx. 9  $\mu$ , a high number of fibres and inclusions of air can be incorporated in a very compact structure.

Insulations of flat surfaces and pipes with needed glass fibre mats provide a low thermal conductivity, a good flexibility and a high heat resistance. Using different laminations the glass fibre mat can be used as an ecological insulating material in highway engineering and rail car construction, in ship building, for appliances, industrial and machine constructions, compensators etc.

### Technical data

Temperature resistance

of the glass fibre: 500 °C

Flammability: Incombustible according to DIN 4102

Incombustible according to IMO FTPC Part 1

Further characteristics: Vibration resistance, free of binders, does not fall under the terms of the Regulations for Prevention of Accidents "Protection against harmful mineral dust" (VBG 119).

Coefficient of thermal conductivity

Mean temp. °C	50	100	200	300	350	400	450	500	550
$\lambda$ (W/mK)	0,037	0,042	0,054	0,064	0,076	0,084	0,093	0,102	0,112

### Availability

Nominal thickness (mm)	4,3	5,3	11,3	12,7	14	19	25	25	25
Roll length (m)	50	50	20	25	20	20	10	10	10
Roll width (mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Nominal weight per area unit (g/m <sup>2</sup> )	500	600	1800	2100	2300	3000	3300	4000	4500
Density (kg/m <sup>3</sup> )	115	115	160	165	165	160	135	160	180

Blanks: Stripes, tapes, plates and plain formed parts according to drawing.

Lamination: Aluminum, PE- and self-adhesive foils etc.

The before mentioned data are standard values. Different measurements, bulk density or weights per area unit and laminations are available. Please contact our sales department for insulating techniques.

Information, details, and data of our brochure are according to the best of our knowledge, if possible proved by tests and are for information only. We recommend tests according to your specific conditions. Be assured that our technical and commercial department will be at your service at all times.

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