



GLASS-TECH "Felt"



DESCRIPTION :

The needle mat Glass-Tech Felt, are part of those products insulating flexible obtained with the use of filaments of glass fiber "E". The realization of these insulating felts is effected by mechanical working the said needle punching, the same is a production process with which, by means of vertical movement of needles, you get a compact and flexible mattress consists of glass fibers. Being formed by means of mechanical processing, it is totally free from binders, leaders by then very good stability in time. A good structure of the glass filaments and the efficient process of the needle-punching system makes the felts Glass-Tech an insulation product with excellent performance of thermal and acoustic insulation.

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The Glass-Tech Felt are products that can ensure their use thanks to major advantages listed below:

TECHNICAL FEATURES :

- Excellent tensile strength
- No binders
- Low shrinkage
- Low thermal conductivity
- No dust
- Good soundproofing
- Good resistance to vibration in low frequency
- Good workability

WORKABILITY PRODUCT :

The Glass-Tech Felt thanks to their characteristic are processed with the use of all those cutting equipment type: cutters, scissors, punches, machinery to cut water etc.

Technical data :

| | | |
|-----------------------------------|--------|-------|
| Classification temperature | °C | 550 |
| Softening Temperature | °C | 660 |
| Average fiber diameter | μ | 6 - 9 |
| Tensile strength of the filaments | hbar | 350 |
| Specific heat | kJ/kgK | 0.820 |
| Fire loss | % | >1 |
| Dielectric constant | MHz | 6.13 |

Thermal conductivity at average temperatures :

| Different density / Temperatures | | 130 Kg/m ³ | 180 Kg/m ³ |
|----------------------------------|------|-----------------------|-----------------------|
| 100°C | W/mK | 0,046 | 0,034 |
| 200°C | W/mK | 0,062 | 0,043 |
| 300°C | W/mK | 0,076 | 0,057 |
| 400°C | W/mK | 0,087 | 0,074 |

Chemical composition:

| | | |
|--|---|---------|
| SiO ₂ | % | 52 – 56 |
| CaO | % | 16 – 25 |
| Al ₂ O ₃ | % | 12 – 18 |
| Other (B, Mg, Na ₂ O ₃) | % | 12 - 19 |



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PRODUCT APPLICATIONS :

- *Insulation for exhaust systems (Silencers)*
- *Insulation appliances*
- *thermal and acoustic insulation*
- *insulation for tanks*
- *Packaging systems textiles (Cover)*
- *Insulation turbines, valves, flanges*
- *Isomats*

STANDARD DIMENSIONS OF SUPPLY:

| length (mt) | width (mm) | thickness (mm) | Density (Kg/m³) |
|--------------------|-------------------|-----------------------|-----------------------------------|
| 50 | 1000/1200 | 6 | 130 to 180 |
| 25 | 1000/1200 | 10 | 130 to 180 |
| 20 | 1000/1200 | 12 | 130 to 180 |
| 10 | 1000/1200 | 25 | 130 to 180 |

NOTES:

The data contained in this publication are to be understood for guidance only and we reserve the right to enter any updates in case of technical changes of the product.



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