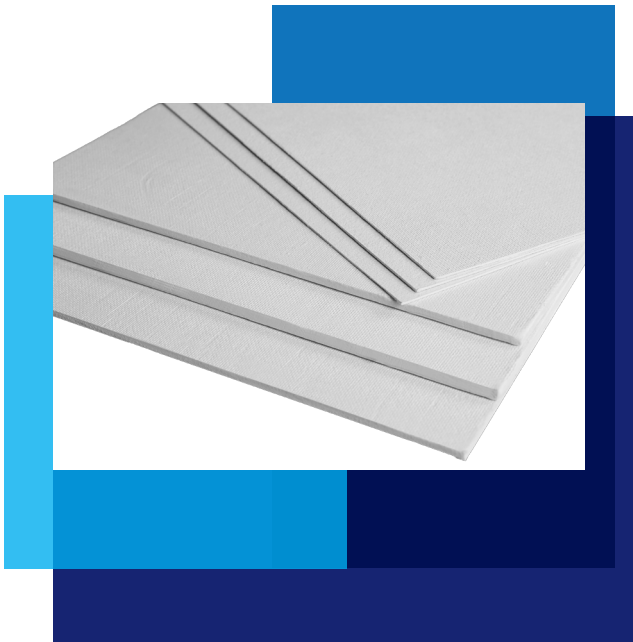


DALFRATHERM®-1200 ULS FELT

Technical data sheet



Product description

DALFRATHERM®-1200 ULS felt products are soft vacuum-formed felts and boards and are based on alkaline earth silicate wool, which is the low bio persistent version.

The lightweight homogeneous insulating material with high permanent temperature resistance, low thermal conductivity, high thermal shock resistance and chemical resistance offers economical application possibilities for technically ambitious high temperature applications.

TECHNICAL DATA

| | | |
|---|-------------------|-------------------------|
| Grade | | AES, low biopersistence |
| Colour | | off-white |
| Classification temperature | °C | 1200 |
| Continuous use temperature | °C | 1050 |
| Density (GB/T 17911) | kg/m ³ | 160 |
| Linear shrinkage (GB/T 17911) 24h@1100°C | % | < 2,5 |
| Thermal conductivity (GB/T 16400) | | |
| 200°C | W/m.K | 0,06 |
| 400°C | W/m.K | 0,10 |
| 600°C | W/m.K | 0,14 |
| 800°C | W/m.K | 0,21 |
| 1000°C | W/m.K | 0,28 |
| Chemical composition after firing (GB/T 21114) | | |
| SiO ₂ | % | 63-66 |
| CaO | % | 26-33 |
| MgO | % | 3-7 |
| Other | % | <0,8 |
| Loss on Ignition (GB/T 6900) | % | < 6 |

DELIVERY SIZES

| Length (mm) | Width (mm) | Thickness (mm) |
|-------------|------------|----------------|
| 1200 | 600 | 6 |
| 1200 | 600 | 13 |
| 1200 | 600 | 25 |
| 1000 | 600 | 6 |
| 1000 | 600 | 13 |
| 1000 | 600 | 25 |

Not all thickness are available as standard

Application area

- Gaskets for expansion joints
- Gaskets for ladles and ingots in steel industry
- Insulation of furnaces and technical installations
- High temperature sealings
- Fire-resistant covers
- Melting and holding crucibles (rear lining material)
- Applications where flexible gasket made from DALFRATHERM® paper can not be used

Properties & benefits

- High fibre index
- Low shot technology
- Excellent insulation performance
- Excellent thermal stability
- Insensitive to thermal shocks
- High handling strength
- Good dimensional tolerances and stability after thermal application
- Smooth surface and low dust
- Excellent machinability

Working & processing

DALFRATHERM®-1200 ULS felt can be easily cut and processed with conventional tools. Suitable items are knives with serrated edge, scissors and punching machines. Depending on the application, the Promat® bonding agent K84 is suitable for bonding DALFRATHERM® felts.

Dust is produced during procession. Dust can be harmful to the health. Avoid contact with eyes and skin. Do not breathe in the dust. Dust should be removed by suction. The dust limits are to be adhered to. See product safety information sheet.

Sustainability

Our world has changed in the past few decades with reduced CO2 emissions and energy consumption as the key drivers. Therefore focus must be on the most effective methods of saving energy.

A high performance insulation lining (such as DALFRATHERM) for the technical installation not only saves energy but also provides energy bill savings, avoids heat loss and demands less power.

All specified technical data are mean values from the production which are subject to the usual fluctuations and do not represent guaranteed properties in the sense of a guarantee. All information corresponds to the current state of the art and has been presented and described to the best of our knowledge. Changes due to new findings are possible, errors and misprints are not excluded. With regard to any liability, our delivery and payment terms apply exclusively. Request safety datasheet. With the publication of this edition, all previously published datasheets are invalid. © Copyright Etex NV, Brussels, Belgium. All rights reserved. 2022-01

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