Promat

1430 °C

DALFRATHERM®-1430 ZR BOARD

Technical data sheet

Product description

For the production of DALFRATHERM®-1430 ZR boards, we use state of the art manufacturing techniques to be capable of delivering a continuous manufactured board to a thickness of 50mm at high consistency, quality and performance.

DALFRATHERM®-1430 ZR board is based on our 1430°C rated RCF DALFRATHERM®-1430 ZR fiber with selected inorganic and organic fillers to deliver high strength and performance in furnace linings.

With its classification temperature of 1430°C, this board is a proven solution in applications operating up to temperatures of 1300°C.

All Board formulations contain a small amount of organic binder to improve the cold handling strength and this burns out on first firing at approximately 200-300°C.

TECHNICAL DATA

Grade		RCF
Colour		offwhite
Classification temperature	°C	1430
Density (EN 1094-4)	kg/m³	300
Compressive strength (GB/T 5072) unfired; <20mm/>20mm	kPa	≥ 100/≥ 250
Rupture strength (GB/T 3001) unfired	kPa	≥ 750
Linear shrinkage (GB/T 17911) 24h@1300°C	%	< 2
Thermal conductivity (ASTM C201) 200°C 400°C 600°C 800°C 1000°C 1200°C	 W/m.K W/m.K W/m.K W/m.K W/m.K W/m.K	 0,06 0,08 0,11 0,15 0,24 -
Loss on Ignition (GB/T 21114)	%	< 8

DALFRATHERM®-1430 ZR BOARD Data Sheet

DELIVERY SIZES

Length (mm)	Width (mm)	Thickness (mm)
1200	1000	10
1200	1000	15
1200	1000	20
1200	1000	25
1200	1000	50
1000	600	10
1000	600	15
1000	600	20
1000	600	25
1000	600	50

Not all thickness are available as standard

Application area

- Thermal insulation for furnace lining
- High temperature back-up insulation for ladles and torpedo cars
- Tundish and launder covers in the casting of various alloys
- Back-up insulation in melting furnaces and protection of burners for the glass industry
- Lining combustion chamber for gas fired boilers and heaters
- Alternative to Denser

Properties & benefits

- High temperature resistance and low shrinkage
- Resistant to erosion from high velocity gasses
- Can be used in direct flame contact
- High strength and easy machining to shape or size
- Resistant to chemical attack from most pollutions
- Excellent thermal insulation and low heat storage
- High strength and temperature resistance

Working & processing

DALFRATHERM®-1430 ZR board can be worked extremely clean and accurate to size with all woodworking machines and tools. When working and processing high temperature wool products, the Technical Regulations for Hazardous Materials (TRGS 558) must be observed.

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.

Etex Industry c/o Microtherm N.V., Industriepark-Noord 1, 9100 Sint-Niklaas, Belgium | T +32 (0)3 760 19 80 | F +32 (0)3 760 19 99
industry@promat.com | www.promat.com/industry