

Promat



Technical Data Sheet

BOARD

DALFRATHERM[®]-1430 ZR

DALFRATHERM®-1430 ZR boards are part of an extensive range of high temperature insulation products targeted on achieving the highest possible thermal insulation value and handling strength.

All products in the Dalfratherm® Board range are manufactured using Ultra Low Shot technology bulk fibers.

Typical applications

- 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

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

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.

Type

Boards from high temperature Refractory Ceramic Fiber insulation wool.

Temperature range

DALFRATHERM®-1430 ZR board has a classification temperature of 1430°C and is recommended for continuous use up to 1300°C in clean oxidizing atmospheres.

DALFRATHERM®-1430 ZR BOARD

1430°C



Grade			RCF
Colour			offwhite
Classification temperature		°C (°F)	1430°C (2606°F)
Density	EN 1094-4	kg/m³	300
Compressive strength (unfired; <20mm/>20mm)	GB/T 5072	kPa	≥ 100/≥ 25
Rupture strength (unfired)	GB/T 3001	kPa	≥ 750
Linear shrinkage	GB/T 17911	%	
24h@1300°C (2012°F)			< 2
Thermal conductivity	ASTM C201	W/m.K	
200°C (392°F)			0,06
400°C (752°F)			0,08
600°C (1112°F)			0,11
800°C (1472°F)			0,15
1000° (1832°F)			0,24
1200° (2192°F)			-
Loss on Ignition	GB/T 21114	%	< 8

Availability (X = standard; O = on special demand)

Thickness mm (inch)		L mm (inch)	W mm (inch)
10 (0,4)	X	1000 (39,37)	610 (24)
15 (0,59)	X	1000 (39,37)	610 (24)
20 (0,79)	X	1000 (39,37)	610 (24)
25 (0,98)	X	1000 (39,37)	610 (24)
50 (1,97)	X	1000 (39,37)	610 (24)
10 (0,4)	X	1200 (47,24)	1000 (39,37)
15 (0,59)	X	1200 (47,24)	1000 (39,37)
20 (0,79)	X	1200 (47,24)	1000 (39,37)
25 (0,98)	X	1200 (47,24)	1000 (39,37)
50 (1,97)	X	1200 (47,24)	1000 (39,37)

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