

# Promat



Technical Data Sheet

SYSTEM

# DALFRATHERM<sup>®</sup>-1430 ZR

DALFRATHERM®-1430 ZR systems are manufactured utilizing the same Ultra Low Shot technology utilized throughout our fiber product range. Ultra-Low Shot technology is at the cutting edge of fiber production, achieving the highest possible thermal insulation value .

By adding Zirconia, this blanket provides a proven solution up to temperatures of 1300°C.

## Typical applications

- Thermal insulation for furnace lining
- Furnace lining in Ceramics and Glass
- Thermal insulation for Petrochemical Industry
- Thermal insulation for Steel Treatment
- General technical insulation of furnaces and technical installations

## Benefits

- Proven technical solution
- Low shot technology
- Excellent insulation performance
- High handling strength
- Unaffected by most chemicals
- Excellent thermal stability
- Resistant to thermal shock

DALFRATHERM®-1430 ZR Systems are built up from 2 slabs which are connected by 2 stainless steel tubes. These also hold the central yoke (and in many cases the anchoring system). Because the fiber slabs are positioned in edge grain orientation and are produced with a high level of needling, the DALFRATHERM® modules can handle high gas velocities without erosion of the fiber structure.

Rated at 1430°C classification temperature and commonly approved for applications in the Petrochemical and Iron and Steel industry where the standard 1260°C rated fiber is insufficient due to high process temperatures.

DALFRATHERM®-1430 ZR Systems are available in a standard dimension of 305x305 mm, but we also

provide L-shaped corner modules and other specialty shapes.

Available in various anchoring systems from side mounted, center fix and direct welding systems with hardware in various grades.

### Type

Monolithic Fiber Modules from high temperature Refractory Ceramic Fiber.

### Temperature range

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

## DALFRATHERM®-1430 ZR SYSTEM

1430°C



<b>Grade</b>			RCF	
<b>Colour</b>			white	
<b>Classification temperature</b>		°C (°F)	1430°C (2606°F)	
<b>Continuous use temperature</b>		°C (°F)	1300°C (2372°F)	
<b>Density</b>	EN 1094-4	kg/m <sup>3</sup>	<b>160</b>	<b>192</b>
<b>Linear shrinkage</b>	GB/T 17911	%		
12h@1200°C (2192°F)			< 2	
12h@1400°C (2552°F)			< 3.5	
<b>Thermal conductivity</b>	ASTM C201	W/m.K		
260°C (500°F)			0.078	0.075
537°C (1000°F)			0.149	0.138
815°C (1500°F)			0.26	0.239
982°C (1800°F)			0.32	0.30
1093° (2000°F)			0.387	0.353
<b>Chemical composition</b>	GB/T 21114	%		
SiO <sub>2</sub>			44 - 50	
Al <sub>2</sub> O <sub>3</sub>			35 - 38	
ZrO <sub>2</sub>			15 - 17	
Others			< 1	

### Availability

Thickness mm (inch)	160	192	L mm (inch)	W mm (inch)
150 (6)	X	X	305 (12)	305 (12)
200 (8)	X	X	305 (12)	305 (12)
250 (10)	X	X	305 (12)	305 (12)
300 (12)	X	X	305 (12)	305 (12)

Because of the wide range and variety of chemistries, densities, sizes and anchoring systems, DALFRATHERM®-1430 ZR Systems are typically produced to project specification.

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