

Promat



Technical Data Sheet

BLANKET

DALFRATHERM[®]-1200 ULS

DALFRATHERM®-1200 ULS blanket is part of an extensive range of high temperature insulation blankets targeted on achieving the highest possible thermal insulation value and handling strength.

ULS stands for Ultra Low Shot and DALFRATHERM®-1200 ULS is a true Generation III product with a high fibre index. It has an improved thermal conductivity and mechanical strength compared to other AES blankets.

Typical applications

- Thermal insulation for furnace lining
- Thermal insulation for lining stacks and chimneys
- Thermal protection cover in aluminum industry
- HRSG thermal liner for boiler and ducting
- Exhaust heat shields for automotive
- General technical insulation of furnaces and technical installations.

Benefits

- High fibre index
- Low shot technology
- Excellent insulation performance
- High handling strength
- Low heat storage
- Excellent thermal stability

As a result of the Ultra Low Shot technology, DALFRATHERM®-1200 ULS blankets provide high handling strength, exceptional thermal insulating performance and reversible flexibility after compression.

DALFRATHERM®-1200 ULS blankets are available in a wide range of dimensions and densities. All products have been developed to meet requirements specific for the final application.

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 for the technical installation not only saves energy but also provides energy bill savings, avoids heat loss and demands less power.

Type

Fibre blanket from Alkaline Earth Silicate (AES) high temperature insulation wool.

Temperature range

DALFRATHERM®-1200 ULS blankets have a classification temperature of 1200°C and are recommended for continuous use up to 1050°C in clean oxidizing atmospheres.



Grade			RCF		
Colour			white		
Classification temperature		°C (°F)	1200°C (2192°F)		
Continuous use temperature		°C (°F)	1050°C (1922°F)		
Density	EN 1094-4	kg/m ³	64	96	128
Tensile strength	GB/T 17911	kPa	35	55	75
Linear shrinkage	GB/T 17911	%			
12h@1100°C (2012°F)			< 3		
12h@1200°C (2192°F)					
12h@1400°C (2552°F)					
Thermal conductivity	ASTM C201	W/m.K			
200°C (392°F)			0,06	0,05	0,05
400°C (752°F)			0,11	0,09	0,08
600°C (1112°F)			0,17	0,14	0,12
800°C (1472°F)			0,27	0,21	0,18
1000° (1832°F)			0,39	0,29	0,25
1200° (2192°F)			-	-	-
Chemical composition	GB/T 21114	%			
SiO ₂			63 - 68		
CaO			26 - 33		
MgO			3 - 7		
Others			< 0,8		

Availability

X = standard item; O = special demand

Thickness in mm (inch)	64	96	128	L mm (inch)	W mm (inch)
6 (0,24)			X	5500 (216,54)	610 (24,02)
13 (0,51)	O	X	X	14640 (576,38)	610 (24,02)
19 (0,75)	O	O	O	9760 (384,25)	610 (24,02)
25 (0,98)	X	X	X	7320 (288,19)	610 (24,02)
38 (1,5)	X	X	X	4880 (192,13)	610 (24,02)
50 (1,97)	X	X	X	3660 (144,09)	610 (24,02)

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