Technical Data Sheet

1260 Blanket

1260 CERAMIC FIBRE BLANKET is made of special ceramic long-fiber that is produced by the melting of very pure raw materials in double surface needing process without binders and with good stability in a large range of temperature. The process of double surface needling increases interweaving and tensile strength.

Characteristic	Needled blanket Non-combustible Can withstand temperature up to 2300^{O}F Low density and low thermal conductivity Shorter heat up and cool down time Resilience and resistance to thermal shock Flexible and easy to cut or install Consist of acoustic properties Contain no organic binder Asbestos free
Application	Refractory back-up installation Direct exposure to heat as furnace hot face lining Expansion joint seal Fire protection General high temperature insulation
Classification temperature	**1260^{O}C (2300^{O} F)**
Melting point	1760^{O}C (3200^{O} F)
Fiber diameter	2.6 micro meter
Fiber length	100 mm average. ~250 mm max.
Tensile strength	5 kgf (49N) / 25 x 25 mm of 128 kg / m^3 on 25 mm thickness

		Specification	**Average**
Bulk density	kg / m^3	150~195 115~150 85~115	160 128 96
Liner shrinkage 1100^{O}C x 8 hrs	%	$\leq$ 3	1.8
Shot content >212micro meter	%	$\leq$ 25	18

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			Specification	Average
Thermal conductivity Kcal/mh^{o} C (W/mK) 160kg/m^3	ASTM C201 mean 300^{o}C		$\leq$ 0.077 (0.089)	0.062 (0.072)
	mean 450^{o}C		$\leq$ 0.11 (0.12)	0.088 (0.10)
	mean 600^{o}C		$\leq$ 0.15 (0.18)	0.12 (0.14)
128 kg/m^3	mean 300^{o}C		$\leq$ 0.080 (0.092)	0.065 (0.076)
	mean 450^{o}C		$\leq$ 0.11 (0.13)	0.096 (0.11)
	mean 600^{o}C		$\leq$ 0.16 (0.19)	0.13 (0.15)
96 kg/m^3	mean 300^{o}C		$\leq$ 0.086 (0.099)	0.076 (0.088)
	mean 450^{o}C		$\leq$ 0.12 (0.14)	0.11 (0.13)
	mean 600^{o}C		$\leq$ 0.17 (0.20)	0.15 (0.18)
Chemical composition %	Al_2O_3		$\geq$ 45	47.1
	Al_2O_3 + SiO_2		$\geq$ 98	99.4

Available size	7200 x 600 mm	thickness	6 mm	12.5 mm	20 mm	25mm
	3600 x 600 mm	thickness	50 mm			
	7320x610 mm	thickness	6 mm	12.5 mm	20 mm	25mm

Dimensional	Tolerance				
Length	7200 mm	3600 mm	7320mm	+ 4%	- 0%
Width	600 mm		610mm	+ 4%	- 2%
Thickness	6 mm			+ 3 mm	- 1 mm
	12.5 mm			+ 4 mm	- 2 mm
	25 mm			+ 6 mm	- 4 mm
	50 mm			+ 8 mm	- 5 mm

Data are average results of standard tests which are subject to variation and should not be used as specification.