# **Cerafelt Refractory Insulation**

Cerafelt sheets are lightweight, flexible refractory fibre insulators formed from exceptionally pure refractory oxides and bonded with an organic binder.

Cerafelt sheet products are suitable for a wide range of high temperature industrial applications such as expansion joints in kilns, furnaces, and boiler walls, and high-temperature gaskets.

When used as a gasket, Cerafelt exhibits excellent resistance to penetration from molten metals, both ferrous and nonferrous.

These unique properties, coupled with its ease of fabrication, make it ideal for ingot stool seals, stopper rod gaskets, and gaskets for aluminum billet casting.

#### Features

- Lightweight & flexible Chemically stable
- Resistant to thermal Shock
- High sound absorption properties
- Low thermal conductivity and heat storage

## ApplicationsGaskets

- Expansion joints
- Thermal Barriers
- Molten metal resistant insulation

Sizes: -	Thickness:	6.4 mm; 9.5mm; 12.5 mm; 19 mm; 25 mm			
	Sheet Size:	2,440 mm x 1,220 mm			
Properties: -	Temperature	Rating - Continuous	:	1260°C	
	Temperature	Rating - Max. Intermittent	:	1320°C	
	Density**		:	192 kg/m <sup>3</sup> (12lb ft <sup>3</sup> ), <u>Ex Stock</u>	
	Loss on Ignition	on, LOI	:	3 - 9%	
	Color		:	Yellow - Cream	

\*\*Densities: - 64, 96, 128, 160, 224, 288 & 385 kg/m³ are available on indent

Chemical Analysis by Weight after Firing			Airflow Resistance based on 192 kg/m <sup>3</sup> Density			
Alumina, Al <sub>2</sub> O <sub>3</sub>	:	46%	8.9 cfm/in. w.c./ft²/in @ 24°C			
Silica, SiO <sub>2</sub>	:	54%	4.4 cfm/in. w.c./ft²/in @ 538°C			
Other	:	trace	3.2 cfm/in. w.c./ft²/in @ 1093°C			

#### Thermal Conductivity based on 128 kg/m<sup>3</sup> Density

#### Mean temperature BTUin/hrft<sup>2</sup>F (W/mK)

500°F (260°C)	0.46 (0.07)
1000°F (538°C)	0.94 (0.14)
1500°F (816°C)	1.58 (0.23)
2000°F (1093°C)	2.29 (0.33)

#### Sound Absorption Coefficients, No. 4 Mounting, based on 128 kg/m<sup>3</sup> Density

	Cycles per Second				_			
	125	250	500	1000	2000	4000	NRC*	
12.5mm	07	12	45	72	77	85	50	* Noise Reduction Coefficient - The average of the sound
25.0mm	21	69	86	84	86	99	80	absorption coefficients at
50.0mm	92	78	81	83	81	79	80	and 2000 cycles per second.
75.0mm	65	80	83	88	85	83	85	



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