Cerafelt®

Product Data Sheet

Product Description

Cerafelt is an insulating refractory felt, manufactured with our Cerachem® fibres by hotpressing. Cerafelt is bonded with an organic binder which begins to burn out at 180°C (356°F).

This special binder makes Cerafelt particularly suitable for die-cutting operations. Semi rigid, it is neither brittle nor dusty.

Cerafelt optimizes the manufacture of complex, die-cut shapes to close tolerances.

With a choice from eight densities and seven thicknesses, Cerafelt offers a grade to suit most requirements.

Features

- Wide range of densities: eight grades from 48 up to 384 kg/m^3 (3 up to 24 pcf)
- High temperature resistance
- Very low thermal conductivity
- Particularly suited to cutting operations; with saw, water jet or by stamping
- Flexible or semi-rigid, depending on density selected
- Chemically stable
- High sound absorption properties
- Precise thicknesses
- Resistant to thermal shock
- Low heat storage

Applications

- High temperature gaskets
- Expansion joints for furnace, kiln and boiler linings
- Die cut shapes for domestic appliances
- Thermal barrier media
- Insulating thermal break

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Thermal Ceramics is a business of Morgan Advanced Materials

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Properties	Cerafelt
Region of Manufacture	EMEA
Color	Yellow
Classification Temperature, °C (°F), EN 1094-1 (2008)	1320 (2400)
Density, kg/m^3, EN 1094-1 (2008)	
Dry, as supplied	48, 64, 96, 128, 160, 192, 288, 384
Loss of Ignition, %	4-12
Permanent Linear Shrinkage, %, after 24 hours, ENV 1094-1	
1260°C (2300°F)	2.5
1320°C (2400°F)	3
Chemical Analysis, %	
Alumina, Al_2O_3	35.1
Silica, SiO_2	49.7
Zirconium oxide, ZrO_2	14.7
Others	0.35

Thermal Conductivity, W/m•K (BTU•in/hr•ft^2•°F), ASTM C201								
Density, kg/m^3	48	64	96	128	160	192	288	384
300°C	0.11	0.10	0.08	0.08	0.07	0.07	0.07	0.06
500°C	0.20	0.17	0.14	0.12	0.11	0.11	0.10	0.10
700°C	0.33	0.27	0.21	0.18	0.16	0.15	0.13	0.13
900°C	0.51	0.41	0.31	0.25	0.22	0.20	0.17	0.15
1000°C	0.75	0.59	0.42	0.34	0.29	0.25	0.21	0.18

Standard Dimensions and Availability

This Cerafelt Product is manufactured in EMEA.

Please check with your local Morgan Advanced Materials -Thermal Ceramics representative for your local business needs.

Thickness, mm (in)	Density, kg/m^3							
	48	64	96	128	160	192	288	384
3 (0.12)				X	X	X	X	X
6 (0.24)		X	X	X	X	X	X	X
10 (0.4)		X	X	X	X	X	X	X
13 (0.52)	X	X	X	X	X	X	X	
19 (0.76)	X	X	X	X	X	X		
25 (1)	X	X	X	X	X	X		
38 (1.52)			X					

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