

FERMET 65SF

FERMET 65SF IS A SELF FLOWING CORUNDUM/MULLITE BASED LOW CEMENT CASTABLE. IT HAS EXCELLANT RESISTANCE TO SLAGS FOUND IN THE SILICON METAL AND FERROSILICON INDUSTRIES.

THE DATA SHOWN IS BASED ON MATERIAL MIXED TO A SELF FLOWING CONSISTANCY AND CAST WITH NO VIBRATION OR RODDING.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1750°C

WATER ADDITION REQUIRED TO SELF FLOW 5.80 - 6.20% BY WT

SELF FLOW CHARACTERISTICS @ 20°C

@ 0 MINS AFTER MIXING >125%
 @ 30 MINS AFTER MIXING >100%

BULK DENSITY

@ 110°C	158 - 164	LBS/FT ³	2530 - 2630	KG/M ³
@ 815°C	157 - 163	LBS/FT ³	2510 - 2610	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	8000 - 13000	P.S.I.	560 - 910	KG/CM ²
@ 1550°C	10000 - 15000	P.S.I.	700 - 1050	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.00 TO -0.15 %
@ 1550°C	+ 0.50 TO +1.50 %

MAXIMUM GRAIN SIZE 10 MM

POROSITY @ 1550°C 14 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 1095°C	15.2	2.2

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	AlK	Other
64.1	26.9	0.7	1.37	Trace	1.63	0.2	4.8

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