

FERMET 70SF

FERMET 70SF IS A SELF FLOWING CORUNDUM/MULLITE BASED ULTRA LOW CEMENT CASTABLE WITH LOW TITANIUM OXIDE AND PHOSPHATE LEVELS. 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 5.50 - 5.80% BY WT

SELF FLOW CHARACTERISTICS @ 20°C

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

BULK DENSITY

@ 110°C	164 - 170	LBS/FT ³	2630 - 2725	KG/M ³
@ 815°C	163 - 169	LBS/FT ³	2610 - 2710	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	6000 - 12000	P.S.I.	420 - 840	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
71.8	20.9	0.4	0.5	Trace	0.9	0.2	5.3

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