

FERMET 55

FERMET 55 IS A ANDALUSITE/MULLITE BASED ULTRA LOW CEMENT CASTABLE WITH GOOD RESISTANCE TO SLAGS FOUND IN THE FERROSILICON INDUSTRY.

THE DATA SHOWN IS BASED ON MATERIAL PREPARED TO A CONVENTIONAL FOLD CONSISTANCY AND VIBRATED INTO FORMWORK.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1700°C

WATER ADDITION REQUIRED TO VIBROCAST 4.50 - 5.00% BY WT

FLOW CHARACTERISTICS @ 20°C (ASTM C860)

@ OT 28% (MINIMUM)
@ 30T 20% (MINIMUM)

BULK DENSITY

@ 110°C	161 - 166	LBS/FT ³	2580 - 2660	KG/M ³
@ 815°C	160 - 165	LBS/FT ³	2560 - 2640	KG/M ³
@ 1600°C	153 - 158	LBS/FT ³	2450 - 2530	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	10000 - 15000	P.S.I.	690 - 1034	KG/CM ²
@ 1600°C	12000 - 18000	P.S.I.	827 - 1241	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.15 TO +0.15 %
@ 1600°C	+ 0.50 TO +1.50 %

MAXIMUM GRAIN SIZE 5 MM

POROSITY @ 1600°C 12.5%

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 1095°C	13.8	2.0

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	ALK	Other
53.0	39.3	0.84	0.5	0.1	0.9	0.3	5.06

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