

FERMET 70

FERMET 70 IS A CORUNDUM / ANDALUSITE 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.) 1750°C

WATER ADDITION REQUIRED TO VIBROCAST 4.60 - 5.20% BY WT

FLOW CHARACTERISTICS @ 20°C (ASTM C860)

@ IMMEDIATELY AFTER MIXING 28% (MINIMUM)
 @ 30 MINUTES AFTER MIXING 20% (MINIMUM)

BULK DENSITY

@ 110°C	175 - 180	LBS/FT ³	2800 - 2885	KG/M ³
@ 815°C	174 - 179	LBS/FT ³	2790 - 2870	KG/M ³
@ 1600°C	164 - 169	LBS/FT ³	2630 - 2710	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	10000 - 15000	P.S.I.	690 - 1034	KG/CM ²
@ 1600°C	15000 - 20000	P.S.I.	1034 - 1380	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.15	TO	+0.15 %
@ 1550°C	+ 0.50	TO	+2.00 %

MAXIMUM GRAIN SIZE 5 MM

POROSITY @ 1600°C 13 %

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
69.0	23.8	0.5	0.5	0.07	0.2	0.4	5.53

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet

