

SUREFLOW 3E

SUREFLOW 3E IS A HIGH STENGTH SPECIAL LIGHTWEIGHT HEAT INSULATING CASTABLE DESIGNED PRIMARILY FOR USE IN THE PETROCHEMICAL INDUSTRY FOR SINGLE COMPONENT LININGS IN FCC VESSELS ETC. SUREFLOW 3E REQUIRES NO VIBRATION TO INSTALL AND WILL SELF FLOW INTO FORMWORK WHEN MIXED TO A NORMAL FOLD CONSISTANCY IN THE MIXER.

THE DATA SHOWN IS BASED ON MATERIAL PREPARED TO A CONVENTIONAL FOLD CONSISTANCY AND ALLOWED TO SELF-FLOW INTO FORMWORK WITHOUT VIBRATION OR TAMPING.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1200°C)

BULK DENSITY

After 110°C	64 - 70	LBS/FT ³	1025 - 1121	KG/M ³
After 815°C	58 - 64	LBS/FT ³	929 - 1025	KG/M ³

COLD CRUSHING STRENGTH

After 815°C	700 - 1300	P.S.I.	48 - 90	KG/CM ²
After 1095°C	600 - 900	P.S.I.	41 - 62	KG/CM ²
After M.S.T.	600 - 900	P.S.I.	41 - 62	KG/CM ²

COLD MODULUS OF RUPTURE

After 815°C	100 - 200	P.S.I.	7 - 14	KG/CM ²
After M.S.T.	150 - 250	P.S.I.	10 - 14	KG/CM ²

PERMANENT LINEAR CHANGE

After 815°C	- 0.10 TO - 0.30 %
After 1095°C	- 0.30 TO - 0.80 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	1.40	0.20
@ 540°C (1000°F)	1.60	0.23
@ 815°C (1500°F)	1.80	0.26

TYPICAL CHEMICAL ANALYSIS (%)

Al₂O₃	SiO₂	Fe₂O₃	CaO	MgO	TiO₂	AlK
45.0	32.9	1.1	14.8	0.5	0.5	2.1

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