PRODUCT DATA

SUREFLOW 3

SUREFLOW 3 IS A STANDARD LIGHTWEIGHT DESIGNED FOR INSTALLATION BY POURING. IT HAS A COMBINATION OF HIGH STRENGTH AND LOW HEAT CONDUCTIVITY. IT IS SUITIBLE FOR USE AS A BACK-UP MATERIAL IN BI-WALL LININGS AS WELL AS SINGLE LAYER LININGS FOR CRUDE HEATERS, FURNACES, AND OTHER PROCESS APPLICATIONS. CAST DATA :

MAXIMUM SERVICE TEMPERATURE (M.S.T.)   (1300°C)

BULK DENSITY

@ 110°C	65 – 72	LBS/FT^3	1041 – 1153	KG/M^3
@ 815°C	58 – 64	LBS/FT^3	929 – 1025	KG/M^3

COLD CRUSHING STRENGTH

@ 815°C	600 – 900	P.S.I.	42 – 63	KG/CM^2
@ 1095°C	600 – 900	P.S.I.	42 – 63	KG/CM^2
@ M.S.T.	500 – 800	P.S.I.	35 – 56	KG/CM^2

COLD MODULUS OF RUPTURE

@ 815°C	150 – 250	P.S.I.	10 – 14	KG/CM^2
@ 1095°C	150 – 250	P.S.I.	10 – 18	KG/CM^2
@ M.S.T.	100 – 200	P.S.I.	7 – 10	KG/CM^2

PERMANENT LINEAR CHANGE

@ 815°C	- 0.20 TO - 0.60 %
@ 1095°C	- 0.40 TO - 0.80 %
@ M.S.T.	- 0.40 TO - 1.00 %

CONDUCTIVITY OR "K" FACTOR

MEAN TEMP	BTU/FT^2/HR/°F/IN	W/mK
@ 260°C (500°F)	1.70	0.24
@ 540°C (1000°F)	1.65	0.23
@ 815°C (1500°F)	1.80	0.26

TYPICAL CHEMICAL ANALYSIS (%)

AL_2O_3	SiO_2	Fe_2O_3	CaO	MgO	TiO_2	AlK
34.1	39.0	7.5	13.8	0.9	2.0	1.3