RESCO
PRODUCTS (UK) LTD

SUREFLOW 17EM

SUREFLOW 17EM IS A "SELF-FLOW" CASTABLE DESIGNED FOR INSTALLATION BY POURING. WHEN MIXED TO A CONVENTIONAL FOLD CONSISTANCY,SUREFLOW 17EM WILL SELF-FLOW INTO FORMWORK AND DEGAS WITHOUT THE NEED FOR VIBRATION, RODDING OR TAMPING. THIS MATERIAL HAS LOW THERMAL CONDUCTIVITY AND EXCELLENT RESISTANCE TO THERMAL SHOCK. IT IS IDEAL FOR REACTORS, SEAL-POTS AND OVERHEAD LINES, WHEN EASE OF INSTALLATION WITHOUT VIBRATION COMBINED WITH SUPERB PHYSICAL PROPERTIES IS REQUIRED.

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.)   1370°C

BULK DENSITY

@ 110°C	115 - 120	LBS/FT^3	1842 - 1922	KG/M^3
@ 815°C	110 - 115	LBS/FT^3	1762 - 1842	KG/M^3

COLD CRUSHING STRENGTH

@ 110°C	6000 - 9000	P.S.I.	414 - 621	KG/CM^2
@ 815°C	5000 - 7000	P.S.I.	345 - 483	KG/CM^2

COLD MODULUS OF RUPTURE

@ 815°C	700 - 1000	P.S.I.	48 - 69	KG/CM^2

PERMANENT LINEAR CHANGE

@ 815°C	-0.1 to - 0.3 %
@ 1095°C	-0.1 to - 0.4 %

EROSION LOSS (ASTM C-704)

@815°C   **LESS THAN 20 CC   (Typically 15 - 16 CC)**

TYPICAL CONDUCTIVITY OR "K" FACTOR

MEAN TEMP	BTU/FT^2/Hr/°F/in	W/mK
@ 540°C	5.0	0.71
@ 815°C	5.6	0.80
@ 1095°C	6.1	0.87

TYPICAL CHEMICAL ANALYSIS (%)

Al_2O_3	SiO_2	Fe_2O_3	CaO	MgO	TiO_2	AlK
56.0	31.9	1.3	6.0	1.6	0.5	1.3

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