

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 SUITABLE 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

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 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 ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	ALK
34.1	39.0	7.5	13.8	0.9	2.0	1.3

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.

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