

SUREFLOW 17

SUREFLOW 17 IS A HIGH TEMPERATURE, HIGH PURITY CASTABLE DESIGNED FOR INSTALLATION BY POURING. WHEN MIXED TO A CONVENTIONAL "FOLD" CONSISTANCY, SUREFLOW 17 WILL SELF-FLOW INTO FORMWORK AND DEGAS WITHOUT THE NEED FOR VIBRATION OR RODDING. EASE OF APPLICATION AND GOOD PHYSICAL PROPERTIES MAKE IT IDEAL FOR INDUSTRIES WHERE HIGH TEMPERATURES AND HIGH STRENGTH IS REQUIRED.

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

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1650°C

WATER ADDITION REQUIRED TO "FREE FLOW" 9.0 - 10.0% BY WT

<u>BULK DENSITY</u>				<u>TYPICAL (METRIC)</u>	
@ 110°C	151 - 157	LBS/FT ³	2419 - 2515	KG/M ³	(2460)
@ 815°C	144 - 150	LBS/FT ³	2306 - 2403	KG/M ³	(2355)

COLD CRUSHING STRENGTH

@ 110°C	9000 - 14000	P.S.I.	621 - 966	KG/CM ²	(758)
@ 815°C	8000 - 13000	P.S.I.	552 - 897	KG/CM ²	(690)
@ 1510°C	7000 - 12000	P.S.I.	483 - 828	KG/CM ²	(690)

COLD MODULUS OF RUPTURE

@ 815°C	1200 - 1800	P.S.I.	83 - 124	KG/CM ²	(104)
@ 1510°C	1200 - 1800	P.S.I.	83 - 124	KG/CM ²	(104)

PERMANENT LINEAR CHANGE

@ 815°C	0.00 TO - 0.30 %	(- 0.20)
@ 1095°C	0.00 TO - 0.50 %	(- 0.50)

EROSION LOSS (ASTM C-704) LESS THAN 15 CC (10.0 CC)

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	7.8	1.12
@ 815°C	8.2	1.18
@ 1095°C	8.5	1.21

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	ALK
70.3	21.0	0.7	5.5	0.2	1.9	0.4

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.

RES CO PRODUCTS disclaims any express or implied warranties based on this sheet.

01/01/09 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

