RESCO
PRODUCTS (UK) LTD

SELF FLOW CASTABLES

PRODUCT DATA

SUREFLOW 17A

SUREFLOW 17A IS A HIGH PURITY, LOW IRON CASTABLE SUITABLE FOR HIGH TEMPERATURE APPLICATIONS. UNLIKE CONVENTIONAL HIGH ALUMINA CASTABLES IT REQUIRES NO VIBRATION TO INSTALL AND WILL "SELF-FLOW" AND DEGAS WHEN MIXED TO A FOLD CONSISTANCY. ITS LOW IRON AND SILICA CONTENTS OF LESS THAN 0.1 TO 0.2 PERCENT MAKE SUREFLOW 17A IDEAL FOR REDUCING ATMOSPHERES SUCH AS HYDROGEN AND OR CARBON MONOXIDE AND ALSO PROVIDES EXCELLENT RESISTANCE TO SLAGS AND HIGH TEMPERATURE CORROSIVE ATMOSPHERES.

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

MAXIMUM SERVICE TEMPERATURE (M.S.T.)

1870°C

BULK DENSITY

@ 110°C	**182 - 186 LBS/FT³**	**2915 - 2979 KG/M³**
@ 815°C	**174 - 178 LBS/FT³**	**2787 - 2851 KG/M³**

COLD CRUSHING STRENGTH

@ 815°C	**9000 - 14000 P.S.I.**	**620 - 965 KG/CM²**
@ 1510°C	**9000 - 14000 P.S.I.**	**620 - 965 KG/CM²**

COLD MODULUS OF RUPTURE

@ 540°C	**1200 - 1800 P.S.I.**	**83 - 124 KG/CM²**
@ 815°C	**1200 - 1800 P.S.I.**	**83 - 124 KG/CM²**

PERMANENT LINEAR CHANGE

@ Green to 110°C	**- 0.0 to - 0.1 %**
@ 110°C to 815°C	**- 0.0 to - 0.3 %**

EROSION LOSS (ASTM C-704)

@815°C **LESS THAN 12 CC** **(Typically 9.5 CC)**

CONDUCTIVITY OR "K" FACTOR

MEAN TEMP	BTU/FT²/Hr/°F/in	W/mK
@ 260°C	**18.3**	**2.66**
@ 540°C	**18.0**	**2.61**
@ 815°C	**18.2**	**2.64**

TYPICAL CHEMICAL ANALYSIS (%)

AL_2O_3	SiO_2	Fe_2O_3	CaO	MgO	AlK
93.7	**0.1**	**0.05**	**4.7**	**0.05**	**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.
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