



SELF FLOW CASTABLES

PRODUCT DATA

SUREFLOW 70 SC

SUREFLOW 70SC IS A SILICON CARBIDE BASED LOW CEMENT CASTABLE SPECIFICALLY DESIGNED FOR INSTALLATION BY SELF FLOW CASTING. ITS HIGH THERMAL CONDUCTIVITY MAKES IT IDEAL FOR APPLICATIONS WHERE HIGH HEAT TRANSFER IS IMPORTANT. SUREFLOW 70SC SHOWS EXCELLENT RESISTANCE TO ABRASION, THERMAL SPALLING AND CORROSION, COMBINED WITH SUPER HIGH FIRED STRENGTHS.

THE DATA SHOWN IS BASED ON MATERIAL PREPARED TO A SELF FLOWING CONSISTANCY AND Poured INTO FORMWORK WITHOUT VIBRATION OR TAMPING.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1500°C

BULK DENSITY

| | | | | |
|---------|-----------|---------------------|-------------|-------------------|
| @ 110°C | 160 - 165 | LBS/FT ³ | 2560 - 2640 | KG/M ³ |
| @ 815°C | 157 - 162 | LBS/FT ³ | 2510 - 2595 | KG/M ³ |

COLD CRUSHING STRENGTH

| | | | | |
|----------|---------------|--------|-----------|--------------------|
| @ 815°C | 8000 - 12000 | P.S.I. | 552 - 827 | KG/CM ² |
| @ M.S.T. | 10000 - 14000 | P.S.I. | 690 - 965 | KG/CM ² |

PERMANENT LINEAR CHANGE

@ 815°C - 0.00 TO - 0.30 %

EROSION LOSS (ASTM C-704)

@ 815°C 7 CC MAX

CONDUCTIVITY OR "K" FACTOR

| <u>MEAN TEMP</u> | <u>BTU/FT²/Hr/°F/in</u> | <u>W/mK</u> |
|------------------|------------------------------------|-------------|
| @ 540°C | 45.6 | 6.6 |
| @ 1095°C | 48.0 | 7.0 |

TYPICAL CHEMICAL ANALYSIS (%)

| AL ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | CaO | SiC | TiO ₂ | ALK |
|--------------------------------|------------------|--------------------------------|-----|------|------------------|-----|
| 22.3 | 5.9 | 0.1 | 1.6 | 69.9 | --- | 0.2 |

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