# RESCO
PRODUCTS (UK) LTD

# SUREFLOW 52LC

*SUREFLOW 52LC IS A 1650°C LOW CEMENT CASTABLE WHICH REQUIRES NO VIBRATION TO INSTALL. SUPER HIGH STRENGTHS, ABRASION RESISTANCE AND VOLUME STABILITY ARE ACHIEVED EVEN WHEN THE MATERIAL IS MIXED TO A "FREE-FLOWING" OR "SELF-LEVELLING" CONSISTANCY. SUREFLOW 52LC IS IDEALLY SUITED FOR PUMP CASTING APPLICATIONS.*

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

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

**BULK DENSITY**

|  |  |  |  |  | TYPICAL (METRIC) |
|---|---|---|---|---|---|
| @ 110°C | 151 – 156 | LBS/FT$^3$ | 2419 – 2499 | KG/M$^3$ | (2466) |
| @ 815°C | 149 – 154 | LBS/FT$^3$ | 2387 – 2467 | KG/M$^3$ | (2430) |

**COLD CRUSHING STRENGTH**

| | | | | | |
|---|---|---|---|---|---|
| @ 815°C | 11600 – 17500 | P.S.I. | 800 – 1200 | KG/CM$^2$ | (1200) |
| @ M.S.T. | 11600 – 14500 | P.S.I. | 800 – 1000 | KG/CM$^2$ | (900) |

**PERMANENT LINEAR CHANGE**

@ 815°C                              - 0.10  TO  -0.30 %                    (-0.20)

**MAXIMUM GRAIN SIZE**                    3.5 MM

# EROSION LOSS (ASTM C-704)

TYPICAL

# @ 815°C          8 CC MAX      (4.5 CC)

**CONDUCTIVITY OR "K" FACTOR**

| MEAN TEMP | BTU/FT$^2$/Hr/°F/in | W/mK |
|---|---|---|
| @ 540°C | 9.0 | 1.26 |
| @ 1095°C | 10.0 | 1.43 |

## TYPICAL CHEMICAL ANALYSIS (%)

| AL$_2$O$_3$ | SiO$_2$ | Fe$_2$O$_3$ | CaO | MgO | TiO$_2$ | AlK |
|---|---|---|---|---|---|---|
| 52.0 | 44.3 | 0.6 | 1.4 | 0.1 | 1.3 | 0.3 |

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