

SUREFLOW 93LC

SUREFLOW 93LC IS AN ULTRA HIGH ABRASION RESISTANT LOW CEMENT CASTABLE DESIGNED FOR INSTALLATION BY POURING. ITS SUPER HIGH STRENGTHS AND ABRASION RESISTANCE MAKE IT AN IDEAL CHOICE IN PROBLEM AREAS WHERE REQUIREMENTS EXCEED THE CAPABILITIES OF CONVENTIONAL LOW CEMENT CASTABLES.

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.) 1700°C

BULK DENSITY

| | | | | |
|---------|-----------|---------------------|-------------|-------------------|
| @ 110°C | 181 - 186 | LBS/FT ³ | 2899 - 2979 | KG/M ³ |
| @ 815°C | 177 - 183 | LBS/FT ³ | 2835 - 2931 | KG/M ³ |

COLD CRUSHING STRENGTH

| | | | | |
|----------|---------------|--------|-------------|--------------------|
| @ 815°C | 20000 - 25000 | P.S.I. | 1380 - 1725 | KG/CM ² |
| @ M.S.T. | 25000 - 35000 | P.S.I. | 1725 - 2415 | KG/CM ² |

COLD MODULUS OF RUPTURE

| | | | | |
|---------|-------------|--------|-----------|--------------------|
| @ 815°C | 5000 - 7000 | P.S.I. | 345 - 483 | KG/CM ² |
|---------|-------------|--------|-----------|--------------------|

PERMANENT LINEAR CHANGE

| | |
|---------|------------------|
| @ 815°C | - 0.1 TO - 0.3 % |
|---------|------------------|

EROSION LOSS (ASTM C-704)

| | | |
|---------|----------|------------------|
| @ 815°C | 4 cc MAX | (Typical 2.3 cc) |
|---------|----------|------------------|

CONDUCTIVITY OR "K" FACTOR

| <u>MEAN TEMP</u> | <u>BTU/FT²/Hr/°F/in</u> | <u>W/mK</u> |
|------------------|------------------------------------|-------------|
| @ 540°C | 17.3 | 2.50 |
| @ 1095°C | 18.0 | 2.60 |

TYPICAL CHEMICAL ANALYSIS (%)

| | | | | | | |
|--------------------------------|------------------|--------------------------------|-----|------|------------------|------|
| AL ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | CaO | MgO | TiO ₂ | ALK |
| 91.5 | 6.1 | 0.1 | 1.5 | 0.04 | 0.14 | 0.35 |

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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 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