

SUREFLOW 110

SUREFLOW 110 IS A "SELF-FLOW" CASTABLE DESIGNED FOR INSTALLATION BY POURING. WHEN MIXED TO A CONVENTIONAL FOLD CONSISTANCY, SUREFLOW 110 WILL SELF-FLOW INTO FORMWORK AND DEGAS WITHOUT THE NEED FOR VIBRATION, RODDING OR TAMPING. THIS HIGHLY EROSION RESISTANT MATERIAL IS IDEAL FOR U-BENDS, Y-SECTIONS AND OVERHEAD LINES AND OTHER CATALYST TRANSFER LINES, WHEN EASE OF INSTALLATION WITHOUT VIBRATION COMBINED WITH SUPERB PHYSICAL PROPERTIES IS REQUIRED.

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

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1315°C

BULK DENSITY

@ 110°C 115 - 120 LBS/FT³ 1842 - 1922 KG/M³
@ 815°C 107 - 112 LBS/FT³ 1714 - 1794 KG/M³

COLD CRUSHING STRENGTH

@ 815°C 5000 - 9000 P.S.I. 350 - 630 KG/CM²

COLD MODULUS OF RUPTURE

@ 815°C 800 - 1200 P.S.I. 56 - 84 KG/CM²

PERMANENT LINEAR CHANGE

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

EROSION LOSS

LESS THAN 12cc

TYPICAL CONDUCTIVITY OR "K" FACTOR

| <u>MEAN TEMP</u> | <u>BTU/FT²/Hr/°F/in</u> | <u>W/Mk</u> |
|------------------|------------------------------------|-------------|
| @ 540°C | 6.0 | 0.86 |
| @ 815°C | 5.4 | 0.78 |
| @ 1095°C | 4.8 | 0.69 |

TYPICAL CHEMICAL ANALYSIS (%)

| AL ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | CaO | MgO | TiO ₂ | AIK |
|--------------------------------|------------------|--------------------------------|-----|-----|------------------|-----|
| 54.5 | 31.0 | 1.4 | 8.8 | 0.7 | 0.6 | 1.4 |

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