



# INSULATING CASTABLES

PRODUCT DATA

## RESCOCAST 3EPC

RESCOCAST 3EPC IS A HIGH STRENGTH SPECIAL LIGHTWEIGHT HEAT INSULATING CASTABLE DESIGNED PRIMARILY FOR USE IN THE PETROCHEMICAL INDUSTRY FOR SINGLE COMPONENT LININGS IN FCC VESSELS ETC. RESCOCAST 3EPC IS A CASTING GRADE PRODUCT WHICH IS AN EXCELLENT CHOICE FOR PUMPCAST APPLICATIONS. PUMP CAST DATA:

**MAXIMUM SERVICE TEMPERATURE (M.S.T.)** (1200°C)

**BULK DENSITY**

After 110°C	64 - 70	LBS/FT <sup>3</sup>	1025 - 1121	KG/M <sup>3</sup>
After 815°C	58 - 64	LBS/FT <sup>3</sup>	929 - 1025	KG/M <sup>3</sup>

**COLD CRUSHING STRENGTH**

After 815°C	600 - 1000	P.S.I.	42 - 70	KG/CM <sup>2</sup>
After 1095°C	500 - 700	P.S.I.	35 - 49	KG/CM <sup>2</sup>

**COLD MODULUS OF RUPTURE**

After 815°C	100 - 200	P.S.I.	7 - 14	KG/CM <sup>2</sup>
After M.S.T.	150 - 200	P.S.I.	11 - 14	KG/CM <sup>2</sup>

**PERMANENT LINEAR CHANGE**

Green to 815°C	0.0 TO - 0.5 %
110°C to 815°C	0.0 TO - 0.4 %

**POROSITY**

@ 540°C 50 %

**CONDUCTIVITY OR "K" FACTOR**

<u>MEAN TEMP</u>	<u>BTU/FT<sup>2</sup>/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	1.40	0.20
@ 540°C (1000°F)	1.60	0.23
@ 815°C (1500°F)	1.70	0.25

**TYPICAL CHEMICAL ANALYSIS (%)**

AL <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	AlK
49.6	33.3	1.2	10.2	0.6	1.7	0.4

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