



INSULATING CASTABLES

PRODUCT DATA

RESCOCAST 6PC

RESCOCAST 6PC IS A HIGH STRENGTH, SPECIAL MEDIUM-WEIGHT HEAT INSULATING CASTABLE DESIGNED PRIMARILY FOR USE IN THE PETROCHEMICAL INDUSTRY WHERE HIGHER STRENGTH AND TEMPERATURE REQUIREMENTS ARE NEEDED. RESCOCAST 6PC IS A PUMP CASTING PRODUCT. PUMP CAST DATA:

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

BULK DENSITY

After 110°C	78 - 84	LBS/FT ³	1249 - 1346	KG/M ³
After 815°C	72 - 77	LBS/FT ³	1153 - 1233	KG/M ³

COLD CRUSHING STRENGTH

After 815°C	1100 - 2000	P.S.I.	76 - 138	KG/CM ²
After 1095°C	1000 - 1900	P.S.I.	69 - 131	KG/CM ²
After M.S.T.	2000 - 2200	P.S.I.	138 - 152	KG/CM ²

COLD MODULUS OF RUPTURE

After 815°C	300 - 500	P.S.I.	21 - 35	KG/CM ²
After 1095°C	300 - 500	P.S.I.	21 - 35	KG/CM ²
After M.S.T.	500 - 700	P.S.I.	35 - 48	KG/CM ²

PERMANENT LINEAR CHANGE

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

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	2.70	0.39
@ 540°C (1000°F)	2.85	0.31
@ 815°C (1500°F)	3.00	0.43
@ 1095°C (2000°F)	3.20	0.46

TYPICAL CHEMICAL ANALYSIS (%)

AL₂O₃	SiO₂	Fe₂O₃	CaO	MgO	TiO₂	ALK
41.86	39.3	2.3	10.3	0.7	0.7	1.9

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