



TECHNICAL DATA SHEET

RENO PUMP 50Z LC is a 50% alumina and Zircon low cement castable developed to be cast, pumped or shot-creted into place.

FEATURES:

- Excellent strength and abrasion resistance
- Low iron
- Volume stable
- Alkali resistance
- Low porosity
- Applications include cement coolers and pre-heaters

SERVICE TEMPERATURE: 3000°F
 MATERIAL REQUIRED FOR ESTIMATING: 150 lbs. /cu. ft.
 PUMPING WATER: 6 - 6.5%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	Zircon	CaO
47	46	<0.9	<1.5	3.5	2.0

TYPICAL PHYSICAL PROPERTIES (pumping)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Hot MOR psi	Abrasion Loss cc
250	1,500 – 2,000	9,500 – 11,000	---	---	--
1500	1,400 - 1.670	9,000 – 13,500	0.0	2465	<7.4
2000	1,700 – 2,050	7,500 – 9,500	-0.2	---	<6.4
2500	2,100 – 2,500	6,800 – 9,900	0.4	429	<6

Coefficient of Thermal Expansion: 2.3 x10⁻⁶ in/in/°F

POROSITY, 1500°F: 14%
 POROSITY, 2500°F: 13%

“K” FACTOR 2000°F (mean temp): 8.8 Btu-in/hr-ft²-°F

PACKAGING: 2000 lb. Bags, 2 per Pallet (4,000 lbs.)

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The data presented represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specification purposes.