



RENO REFRACTORIES, INC

RENO PUMP 50 LC/FF/SS

TECHNICAL DATA SHEET

RENO PUMP 50 LC/FF/SS is a 50% alumina, low cement castable developed to be cast, pumped or shotcreted into place.

RENO PUMP 50 LC/FF/SS has low iron content volume stability, strength and abrasion resistance and is ideal for a variety of applications.

SERVICE TEMPERATURE: 3000°F
 MATERIAL REQUIRED FOR ESTIMATING: 140 - 150 lbs./cu. ft.
 CASTING WATER: 6.25-6.75%
 PUMP/SHOTCRETED: 6.75-7.25%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	CaO
50	44-46	<0.9	<1.5	<0.1	2.0

TYPICAL PHYSICAL PROPERTIES (CAST)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1,900 – 2,400	9,500 – 11,500	---
1000	--	--	--
1500	2,300 – 2,700	11,500 – 12,500	-0.1
2000	2,500 – 2,700	12,300 – 13,000	-0.2
2500	2,100 – 2,600	>13,000	+0.4

TYPICAL PHYSICAL PROPERTIES (PUMP/SHOTCRETED)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1,650 – 1,800	7,050 – 9,400	-0.15
1500	1,500 – 2,300	10,500 – 13,000	0
2000	1,750 – 2,450	10,000 – 12,000	-0.2
2500	2,500 – 2,700	>13,000	+0.2

CAST ABRASION LOSS AFTER 1500°F (ASTM C 704): <7cc
 SHOTCRETED ABRASION LOSS AFTER 1500°F (ASTM C 704): <10cc

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

143000 – 11/14/12

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.