



TECHNICAL DATA SHEET

RENO PUMP 45-10 LC is a very strong, thermal shock and abrasion resistant low cement castable. This material contains silicon carbide and exhibits excellent abrasion and alkali resistance. This material can be easily installed by vibrating, pump casting, or shotcreting.

RENO PUMP 45-10 LC is recommended for applications where abrasion and alkali attack are a problem.

SERVICE TEMPERATURE:	3000°F
MATERIAL REQUIRED FOR ESTIMATING:	140 lbs/cf
CASTING WATER:	6 – 7%
PUMPING WATER:	6.5-7.5%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	CaO	Alkalies	SIC
45	39	0.9	1.6	0.1	2 – 3	0.2	10

TYPICAL PHYSICAL PROPERTIES (vibrated)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	2,120	10,300	Nil
1500	2,570	11,200	-0.2
2500	2,800	12,950	+0.4

ABRASION LOSS, 1000°F PREFIRED: <8 cc (vibrated)
 ABRASION LOSS, 1500°F PREFIRED: <5 cc (vibrated)
 <7 cc (pumped)

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 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.