



TECHNICAL DATA SHEET

RENO CAST 70 KH is a high alumina, mullite based, easy to use, ultralow cement castable. It's characteristics are high hot strengths and density to resist abrasion and erosion at elevated temperatures. Low porosity reduces penetration and reaction by molten metal and slags.

RENO CAST 70 KH is recommended for applications where refractory is being impacted by charge material or similar areas. Also can be cast into refractory shapes and installed in a variety of applications that are being impacted.

SERVICE TEMPERATURE:	3100°F
MATERIAL REQUIRED FOR ESTIMATING:	160 lbs/cf
CASTING WATER:	5 – 5.5% by weight
PUMPING WATER:	5.5 – 6.5% by weight

TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalies
69 – 72	23 – 25	<1.0	<2.2	<1.2	<0.2

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1,700 – 2,000	5,750 – 7,250	Nil
1,500	2,000 – 2,500	9,000 – 10,500	-0.1
2,500	3,000 – 3,500	>12,000	-0.1

HOT MOR @ 2500°F: 1,200 psi
HOT MOR @ 2750°F: 612 psi

ABRASION LOSS After 1500°F: 3 - 5 cc
After 2500°F: 2 – 4 cc

APPARENT POROSITY AFTER 1500°F: 12 – 14%

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 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.