

RENO CAST 40 AR

TECHNICAL DATA SHEET

RENO CAST 40 AR is a low moisture, low cement castable that can be installed by casting, pumping, or shotcreting. This product is designed for alkali resistance.

SERVICE TEMPERATURE:	2800°F
MATERIAL REQUIRED FOR ESTIMATING:	150 lbs./cu. ft.
CASTING WATER:	6.5-7.5%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

AI_2O_3	SiO ₂	SiC	Fe_2O_3	TiO ₂	MgO	CaO	Alkalies	ZrO_2
42	45	3.1	0.8	1.2	0.1	2.1	0.3	5

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Porosity %
750	1,050 – 1,200	4,335 – 6,095	-0.20	17.2
1000	1,260 – 1,465	4,545 - 5,440	-0.11	17.5
1500	1,750 – 1,950	4,340 - 5,880	-0.25	18.0
2000	2,530 - 2,750	7,170 - 7,745	-0.42	17.6
2200	2,135 – 2,565	6,160 - 7,300	-0.22	17.0
2500*	2,240 - 2,710	6,670 - 9,095	0.72	16.2
2800*	1,725 – 2,395	11,275 – 12,500	0.93	14.7

ABRASION LOSS: 6.5 cc (1500°F) 7.1 cc (2500°F*)

HOT MODULUS OF RUPTURE: 2,485 psi (1500°F)

THERMAL SHOCK LOSS, 2000°F: 38%

* reducing atmosphere 19-096A

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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.