



RENO REFRACTORIES, INC

RENO GUARD AL

TECHNICAL DATA SHEET

RENO GUARD AL is a steel needle preform containing non-wetting high alumina self-flow castable.

- High abrasion and strength

SERVICE TEMPERATURE: 2500°F
STORAGE LIFE: 6 months
MATERIAL REQUIRED FOR ESTIMATING: 188 lb/cu.ft.
WATER ADDITION: 12.25 – 12.5% by weight

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	CaO	Alkali	Other
80.0	10.75	0.2	0.1	trace	1.35	0.21	8.35

TYPICAL PHYSICAL PROPERTIES

Prefire Temperature (°F)	Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (pcf)	Porosity (%)	Linear Change (%)
1500	6,190 – 6,315	5,975 – 12,541	188	26.2	-0.1
2500	6,120 – 7,885	8,987 – 15,348	185	23.9	3.4

ABRASION LOSS After 1500°F: 2.0 cc
ABRASION LOSS After 2500°F: 0.8 cc

157100 – 3/16/18

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.

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