



RENO REFRACTORIES, INC

Reno Cast ES

TECHNICAL DATA SHEET

Reno Cast ES is special formulated low iron castable that excellent abrasion resistance and high strength where for extreme petrochemical applications. **Reno Cast ES** is an excellent choice for operating conditions where abrasion and high strength low properties are required.

Service Temperature: 2700°F / 1370°C

Wt. Required for Estimating: 130 lb/ft³
2080 kg/m³

Liquid Type: Water

Storage Life: 6 months

Water for Casting: 9.25 to 9.75% by weight

TYPICAL CHEMICAL ANALYSIS(% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalis
53.8	35.9	0.8	1.3	7.6	0.4

TYPICAL COLD PHYSICAL PROPERTIES

Temperature °F	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (lb/ft ³)	PLC (%)	Abrasion Loss (cc)
1500	1300 - 1800	9000 - 13000	128 - 134	-0.0 to - 0.3	<10 (Typical 7 - 9)

Temperature °C	Cold Modulus of Rupture (MPa)	Cold Crushing Strength (MPa)	Density (kg/m ³)	PLC (%)	Abrasion Loss (cc)
815°C	8.9 – 12.4	62 - 90	2050 - 2145	-0.0 to - 0.3	<10 (Typical 7 - 9)

TYPICAL HOT PHYSICAL PROPERTIES

Temperature °F	Thermal Conductivity (BTU/ft ² /hr/in/°F)
500	7.0
1000	7.8
1500	8.2

Temperature °C	Thermal Conductivity (W/m K)
260	1.00
538	1.12
815	1.18

PACKAGING: 50 lb. Bags, 40 per Pallet (2,000 lbs.)

RB

PIN# 611620

6/30/22

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.

Reno Refractories, PO Box 201, Morris, Alabama 35116
205.647.0240 | Toll Free 1.800.741.7366