RENO CLEANCAST 33Z

TECHNICAL DATA SHEET

RENO CLEANCAST 33Z is an alumina-zircon aggregate base, thermal shock resistant, low cement castable.

RENO CLEANCAST 33Z has excellent resistance to abrasion and alkali attack. Can be used for applications in the cement, lime and glass industries.

SERVICE TEMPERATURE: 2500°F

MATERIAL REQUIRED FOR ESTIMATING: 190 lbs./cu. ft. (4.5% water)

CASTING WATER: 4-4.75%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al_2O_3	SiO ₂	Fe ₂ O ₃	TiO ₂	ZrO_2	CaO	SiC
38 – 40	20 – 21	0.4	Tr	32 – 33	1.5	4.9

TYPICAL PHYSICAL PROPERTIES (Cast)

Prefired to	Modulus of	Cold Crushing	Linear Change
°F	Rupture, psi	Strength, psi	%
250	1,640-1,880	8,941-11,200	Nil
1500	1,600-1,813	9,000-12,500	-0.2
2000	1,750-2,000	6,600-10,100	-0.2
2500	1,900-2,450	14,350-16,280	-0.1

HOT MOR @ 1500°F (ORTON): 5,363 psi

APP. POROSITY: 13% After 1500°F (cast) ---- 16% (pumped)

ABRASION LOSS AFTER 1500°F: 4-5cc (cast), 4-6cc (pumped)

THERMAL CONDUCTIVITY (ASTM C-1113@1200F): 16 Btu/ft²/hr/°F

THERMAL EXPANSION: 3.08x 10⁻⁶

169200 - 11/25/19

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.