



RENO REFRACTORIES, INC

ASAP CLEAN 33 Z

TECHNICAL DATA SHEET

ASAP CLEAN 33 Z is an AZS aggregate based, thermal shock resistant, low cement castable that can be vibrated, pumped or shotcreted into place and can be dried out faster than standard refractory castables.

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

SERVICE TEMPERATURE: 2500°F
MATERIAL REQUIRED FOR ESTIMATING: 192 lbs./cu. ft.
CASTING WATER: 4-5%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O 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

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1,990	10,790	Nil
1500	2,450	9,400	-0.1
2000	2,330	11,175	-0.2
2500	4,590	13,800	-0.6

ABRASION LOSS AFTER 1500°F: 3-5cc(cast), 4-6cc(pumped)
THERMAL CONDUCTIVITY (ASTM C-1113): 16 BTU-in/hr-ft²-F @1200F

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 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.

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