



RENO REFRACTORIES, INC

RENO CAST ABRABRAZE AZS

TECHNICAL DATA SHEET

RENO CAST ABRABRAZE AZS is a high strength, abrasion and alkali resistance AZS based, non-wetting refractory designed for casting.

RENO CAST ABRABRAZE AZS applications include refineries and cement kiln areas where abrasion and alkali attack are a problem such as duct-work, transfer lines, cyclones and feed areas.

SERVICE TEMPERATURE:	2650°F
MATERIAL REQUIRED FOR ESTIMATING:	198 lbs/cf
WATER REQUIRED:	4.75 – 5.25%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	ZrO ₂	Other
45	19	0.4	2.5	30	3

TYPICAL PHYSICAL PROPERTIES (cast at 4%)

Prefired °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Abrasion Loss (ASTM C704)	“K” Factor Btu-in/hr-ft ² °F
250	4,320	15,900	Nil		19.0
1000	4,680	>16,000	-0.4	3.1	20.2
1500	4,770	>16,000	-0.5	3.3	20.5
2000	4,775	>16,000	-0.6	3.4	20.7
2500	6,475	>16,000	-0.4	3.1	20.9

COEFFICIENT OF THERMAL EXPANSION: 2.99 E⁻⁶ in/in/°F

POROSITY @ 1500°F: 7%

THERMAL SHOCK CHANGE, C-1171: -71%

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 lbs.)

13-097 D

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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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