



RENO REFRACTORIES, INC

RENO GUN ABRABRADE 60 Z

TECHNICAL DATA SHEET

RENO GUN ABRABRADE 60 Z is an extremely strong gunning castable developed with low cement technology. This material exhibits excellent abrasion resistance and high strengths at high temperatures. The zircon addition adds extra resistance to alkali attack. This material can be easily installed by gunning.

RENO GUN ABRABRADE 60 Z is recommended for applications in the cupola charge area where the charge material is constantly being dropped on one spot or where material is worn due to abrasion.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 140 lbs/cf
WATER ADDITION: Add at Nozzle

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	CaO	Zircon	Alk	Other
58.4	31.0	0.8	1.5	0.1	2.7	5.0	0.1	0.7

TYPICAL PHYSICAL PROPERTIES (tamped samples)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Thermal Conductivity
350	640 - 1,400	4,050 - 6,800	Nil	8.4
1500	483 - 1,220	3,450 - 8,400	0.0	10.4
2000	600 - 1,500	3,800 - 8,000	-0.3	11.3
2500	940 - 1,700	4,670 - 9,100	0.1	12.1
2700	1,100 - 1,550	4,900 - 7,950	0.7	12.5

Coefficient of Thermal Expansion: 3.24 x 10⁻⁶

ABRASION LOSS, 1500°F: <15 cc loss
ABRASION LOSS, 2500°F: <13 cc

HOT MOR (ASTM C583) @2500F: 374 psi

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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