



RENO REFRACTORIES, INC

RENO AluSHIELD 75 FS

TECHNICAL DATA SHEET

RENO AluSHIELD 75 FS is a low cement fused silica castable.

FEATURES:

- Excellent resistance to aluminum
- Very high resistance to thermal shock
- Excellent Alkali Resistance
- Contains 75% fused silica and less than 1% crystalline silica

METHOD OF INSTALLATION

- CAST
- PUMP
- SHOTCRETE – applications not directly overhead with R503 activator that must be purchased separately and is calculated at 1.5% of product weight.

SERVICE TEMPERATURE:

2300°F

MATERIAL REQUIRED FOR ESTIMATING:

118 lbs./ft³

MIXING WATER:

5.5 – 6.25% (Casting)

6.5 – 7.25% (Pumping)

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO
14	82	0.3	0.2	3.5

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Porosity %
250	1,100 – 1,650	10,100 – 13,400	0.1	--
1000	1,140 – 1,720	7,400 – 10,500	-0.2	13.7 – 16
1500	720 – 1,235	5,900 – 9,000	-0.3	13.5 – 15.7
2000	1,639 – 1,889	6,700 – 10,600	-0.4	13.9 – 16

ABRASION RESISTANCE at 1500°F:

<12 cc

HOT MODULUS OF RUPTURE, 1500°F:

2,775 psi

THERMAL SHOCK AFTER 2000°F ASTM C-1171:

12% Loss

ALUMINUM CUP TEST RATING:

EXCELLENT

23-094 A

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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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