



TECHNICAL DATA SHEET

Reno AluSHIELD 65 QH is a pumpable low cement refractory with good workability.

FEATURES:

- Dense mullite based product with high strength and abrasion resistance
- Excellent strength and low porosity.
- Applications include holders, low power melters, ladles, etc.

METHOD OF INSTALLATION

Cast, Pump

SERVICE TEMPERATURE:

3100°F

MIXING WATER:

5.0 – 5.5% (Casting)

5.5 – 6.0% (Pumping)

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	CaO
63-66	30-33	<1.0	<1.7	<0.2	2.0-3.5

TYPICAL PHYSICAL PROPERTIES (Cast)

Prefired to °F	Density pcf	Linear Change %	Modulus of Rupture, psi	Cold Crushing Strength, psi	Abrasion Loss cc
250	153	NIL	2,330 – 2,735	9,000 – 14,695	--
1000	152	-0.3	3,125 – 3,525	11,555 – 17,850	--
1500	152	-0.3	3,715 – 4,215	13,210 – 18,530	3.0
2000	152	-0.6	3,955 – 4,260	15,020 – 18,800	--
2500	152	NIL	3,545 – 4,015	--	3.1

TYPICAL PHYSICAL PROPERTIES (Pump)

Prefired to °F	Density pcf	Porosity %	Linear Change %	Modulus of Rupture, psi	Cold Crushing Strength, psi
250	155	4.5	NIL	2,735 – 3,050	7,835
1000	153	17.5	-0.3	4,150 – 4,500	
1500	153	17.0	-0.3	4,490 – 5,240	9,050
2000	153	17.0	-0.5	4,435 – 4,950	12,710
2800	151	18.0	NIL	3,750 – 4,215	12,450

HOT MODULUS OF RUPTURE, 1700°F: 6,100 psi (Pump)

THERMAL SHOCK (AFTER 2200°F) (ASTM C-1171): 36% MOR Loss (Cast)
30 % MOR Loss (Pump)

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.