



RENO REFRACTORIES, INC

Reno ASAP Gun ES

TECHNICAL DATA SHEET

Reno ASAP Gun ES is a special formulated low iron gun mix that has excellent abrasion resistance and high strength for extreme petrochemical applications. **Reno ASAP Gun ES** is an excellent choice for operating conditions where abrasion and high strength low properties are required.

Service Temperature: 2700°F / 1370°C
Liquid Type: Water
Water for Casting: 9.25 to 9.75% by weight

Wt. Required for Estimating: 130 lb./ft³
2080 kg/m³
Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS(% Calcined Basis)

| Al ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | TiO ₂ | CaO | Alkalis |
|--------------------------------|------------------|--------------------------------|------------------|-----|---------|
| 53.8 | 35.9 | 0.8 | 1.3 | 7.6 | 0.4 |

TYPICAL COLD PHYSICAL PROPERTIES

| Temperature °F | Cold Modulus of Rupture (psi) | Cold Crushing Strength (psi) | Density (lb./ft ³) | PLC (%) | Abrasion Loss (cc) |
|----------------|-------------------------------|------------------------------|--------------------------------|---------------|------------------------|
| 1500 | 1300 - 1800 | 9000 - 13000 | 128 - 134 | -0.0 to - 0.3 | <10 (Typical 7 - 9) |

| Temperature °C | Cold Modulus of Rupture (MPa) | Cold Crushing Strength (MPa) | Density (kg/m ³) | PLC (%) | Abrasion Loss (cc) |
|----------------|-------------------------------|------------------------------|------------------------------|---------------|------------------------|
| 815°C | 8.9 - 12.4 | 62 - 90 | 2050 - 2145 | -0.0 to - 0.3 | <10 (Typical 7 - 9) |

TYPICAL HOT PHYSICAL PROPERTIES

| Temperature °F | Thermal Conductivity (BTU/ft ² /hr./in/°F) | Temperature °C | Thermal Conductivity (W/m K) |
|----------------|---|----------------|------------------------------|
| 500 | 7.0 | 260 | 1.00 |
| 1000 | 7.8 | 538 | 1.12 |
| 1500 | 8.2 | 815 | 1.18 |

PACKAGING: 50 lb. Bags, 40 per Pallet (2,000 lbs.)

22-066 RB

PIN# 611701

6/30/22

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.

Reno Refractories, PO Box 201, Morris, Alabama 35116
205.647.0240 | Toll Free 1.800.741.7366