



RENO REFRACTORIES, INC

Reno Lite 35

TECHNICAL DATA SHEET

Reno Lite 35 is a lightweight insulating refractory castable.

- Low Thermal Conductivity
- Can be cast or gunned
- Can be used as a backup lining or hot face where abrasion is not a factor

Service Temperature: 2000°F/1093°C

Liquid Type: Water

Addition Quantity: Cast: 100-125% by weight

Gunning: Adj. as needed at nozzle

Wt. Required for Estimating: 35 lbs/ft³

Storage Life: 6 months

Required Predamp water: 1-1¼ gal/25 lb bag

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

| Al ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | MgO | TiO ₂ | CaO | Alkalies | Other |
|--------------------------------|------------------|--------------------------------|-----|------------------|------|----------|-------|
| 31.2 | 30.8 | 4.7 | 7.6 | 2.3 | 20.7 | 2.7 | - |

TYPICAL COLD PHYSICAL PROPERTIES (Cast)

| Prefired to °F | Cold Modulus of Rupture (psi) | Cold Crushing Strength (psi) | Density (pcf) | Porosity (%) | Linear Change (%) | Abrasion Loss (cc) |
|----------------|-------------------------------|------------------------------|---------------|--------------|-------------------|--------------------|
| 1500 | | 75-125 | 28-32 | | -1.0 | |

TYPICAL COLD PHYSICAL PROPERTIES (Gunned)

| Prefired to °F | Cold Modulus of Rupture (psi) | Cold Crushing Strength (psi) | Density (pcf) | Porosity (%) | Linear Change (%) | Abrasion Loss (cc) |
|----------------|-------------------------------|------------------------------|---------------|--------------|-------------------|--------------------|
| 300 | 123 | 300 | 45 | 50.84 | 0.34 | |
| 750 | 78 | 230 | 43 | 55.75 | 0.04 | |
| 1500 | 93 | 270 | 40 | 58.98 | -0.76 | 0.69 |
| 2000 | 87 | 255 | 43 | 61.10 | -2.06 | |

TYPICAL HOT PHYSICAL PROPERTIES

| Prefired to °F | Hot Modulus of Rupture (psi) | Thermal Conductivity (BTU/ft ² /hr/in/°F) |
|----------------|------------------------------|--|
| 250 | | 0.90 |
| 750 | | 0.97 |
| 1500 | | 1.17 |
| 2000 | | 1.22 |

22-094

PIN#610000 7/20/2022

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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