

# PLIGUN 815

## Product Information Sheet

## Monolithic Refractory

A low iron gun mix exhibiting excellent strengths and abrasion resistance.

**Maximum Service Temp:** 1500°C  
**Maximum Grain Size:** 7 mm  
**Standard Packaging\*:** Sack - 25kg  
**Estimated Coverage\*\*:** 2200 kg/m<sup>3</sup>  
**Initial Heat Up Schedule:** B  
**Water Addition:** At nozzle

**Reversible Thermal Expansion @ 1000°C:** 0.65%  
**Curing Time:** 24 Hrs  
**Storage Life:** 12 Months  
**Setting:** Hydraulic  
**Abrasion Loss:** 7-10cc  
**ASTM C704**

### Chemical Analysis

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	Alkalies		
56	33	0.8	1.5	7.5	0.4		

### Typical Physical Properties: On gunned samples

Prefired To	Bulk Density	Cold Crushing Strength	Cold Modulus of Rupture	Permanent Linear Change
°C	kg/m <sup>3</sup>	MPa	MPa	%
110	2250	95.00	10.00	-0.05
815	2150	90.00	9.00	-0.15
1100	2150	70.00	7.00	-0.20
1400	2200	60.00	5.00	-0.75

### Other Physical Properties

Prefired To	Apparent Porosity	Thermal Conductivity	Hot Modulus of Rupture	Permanent Volume Change
°C	%	W/mK	MPa	%
110	-	-	-	-
815	-	-	-	-
1100	-	0.92	-	-
1400	-	1.05	-	-

### Formerly:

**Product Number:** LEL70429

**MSDS Reference:** PLIGUN 815 msds

**Effective Date:** Dec-08

**Revision:** 0

\*Please enquire for other packaging options

\*\*Estimated coverage on gungrades does not include rebound

The physical and/or chemical properties and specifications of the product set forth above represent typical average results obtained in accordance with generally accepted Australian standard test methods conducted under controlled conditions, and are subject to normal manufacturing variations. Vesuvius reserves the right to modify the properties and specifications at any time without prior notice.

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Form No.: CP053

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