

# 90-Ram PC

## Product Information Sheet

## Monolithic Refractory

A high alumina, low iron, fine grain, phosphate bonded mouldable. Used for repairing existing linings. Easy to place due to its soft, fine consistency.

**Service Temperature:** 3092 °F **Material Required:** 184 lb/ft<sup>3</sup>  
**Typical Water Required:** None required % **Maximum Grain Size:** 1.2 mm  
**Permanent Linear Change, Rammed/Dried to 110 °C:** -1.2 %

### Chemical Analysis

SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O + K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>
5.0	0.1	90.5	0.2	0.1	0.2	0.6	3.7

### Typical Physical Properties

Tested in accordance with International and European Standards

Prefired to	Bulk Density	Cold Crushing Strength	Cold Modulus of Rupture	Permanent Linear Change
(°F)	(lb/ft <sup>3</sup> )	(psi)	(psi)	(%)
<b>230</b>	175	3625	-	-
<b>1000</b>	178	8120	-	0
<b>1501</b>	176	10150	-	0
<b>1832</b>	175	10875	-	0
<b>2732</b>	184	14500	-	-0.5
<b>2912</b>	189	14500	-	-1.7

### Other Physical Properties

Tested in accordance with International and European Standards

Prefired to	Apparent Porosity	Thermal Conductivity	Hot Modulus of Rupture	Permanent Volume Change
(°F)	(%)	(Btu.in/h.ft <sup>2</sup> .F)	(psi)	(%)
<b>392</b>	-	23	-	-
<b>1112</b>	-	20.3	-	-
<b>1501</b>	18.9	-	-	+0.1
<b>1832</b>	18.7	18.4	-	0
<b>2912</b>	11.6	-	-	-5.1

**Formerly:** 90 Ram PC Slabs (8003)

Product Number: LES00201 MX0 MOLD Revision : E:00

Drying & Firing : N/A

Pumping : N/A

Shotcreting : N/A

MSDS Reference : LES00201

Mixing / Installation : N/A

Effective Date: 03/08/2007

The physical and/or chemical properties and specifications of the product set forth above represent typical average results obtained in accordance with generally accepted 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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