

# MOLDIT® D CASTABLE

## Product Information Sheet

## Monolithic Refractory

MOLDIT® D Castable is a general purpose super duty material designed as an economical refractory for furnaces and flue system applications in incinerators, HPI heaters, combustion chambers, power plant ash hoppers, mineral processing, reheat furnaces and molten metal units.

<b>Service Temperature:</b>	1371 °C	<b>Material Required:</b>	1938 kg/m <sup>3</sup>
<b>Typical Water Required:</b>	13-15 %	<b>Maximum Grain Size:</b>	4 mesh US Sieve

### 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	Other
48.8	0.4	38.0	3.0	8.3	0.2	0.8	0.5


### Typical Physical Properties

Tested in accordance with International and ASTM Standards

Prefired to (°C)	Bulk Density (kg/m <sup>3</sup> )	Cold Crushing Strength (N/mm <sup>2</sup> )	Cold Modulus of Rupture (N/mm <sup>2</sup> )	Permanent Linear Change (%)
110	2066	26.7	8.6	-
538	2002	19.5	4.5	-0.1
816	1938	20.7	5.9	-0.2
1093	1954	13	4.5	-0.3
1316	1874	18.3	6.7	+1.2
1371	1826	37.6	14.3	+2.4

### Other Physical Properties

Tested in accordance with international and ASTM Standards

Prefired to (°C)	Apparent Porosity (%)	Thermal Conductivity (W/m.K)	Hot Modulus of Rupture (N/mm <sup>2</sup> )	Permanent Volume Change (%)
110	17.9	-	-	-
538	20.9	0.91	-	-
816	25.8	0.88	4.3	-
1093	27.3	0.94	3.5	-
1260	27.9	-	1	-
1371	26.8	-	0.3	-

### Formerly: MOLDIT® D

Product Number: LEJ10268 MX1N CASB	Revision: F:00	MSDS Reference: LEJ10268
Drying & Firing: LEA.1801	Pumping: N/A	Mixing / Installation: LEJ.1101
Shotcreting: N/A		Effective Date: 12/29/2008

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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