



**CERAM™ 45 PLASTIC**  
**TS LEV10098 MX1N MOLD**

**Monolithic Refractory  
 Product Information**

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CERAM™ 45 is a super-duty chemically bonded plastic with quick dry-out capabilities.

<b>Service Temperature:</b>	2900 °F	<b>Material Required:</b>	155 lb/ft <sup>3</sup>
<b>Typical Water Required:</b>	N/A %	<b>Maximum Grain Size:</b>	3 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	Na <sub>2</sub> O + K <sub>2</sub> O
53.9	2.1	41.2	1.2	0.2	2.1

**Typical Physical Properties**

Tested in accordance with International and ASTM Standards

Prefired to (°F)	Bulk Density (lb/ft <sup>3</sup> )	Cold Crushing Strength (psi)	Cold Modulus of Rupture (psi)	Permanent Linear Change (%)
230	142	-	55	-0.3
1000	141	-	-	-0.3
1500	139	-	161	-0.3
2000	138	-	387	-0.4
2500	136	-	494	0.1

**Other Physical Properties**

Tested in accordance with International and ASTM Standards

Prefired to (°F)	Apparent Porosity (%)	Thermal Conductivity (Btu.in/h.ft <sup>2</sup> .F)	Hot Modulus of Rupture (psi)	Permanent Volume Change (%)
230	-	7.2	-	-
1000	-	5.9	-	-
1500	-	6.2	-	-
2000	-	7.9	-	-
2500	-	11.1	-	-

**Formerly:** QUICKRAM® 45HS; CERAM™ 6; IFT™ PLASTIC

<b>Drying &amp; Firing:</b>	LEV.1801	<b>Installation Method:</b>	N/A	<b>Mixing / Installation:</b>	LES.1301
<b>Shotcreting:</b>	N/A	<b>Pumping:</b>	N/A	<b>MSDS Reference:</b>	LEV10098

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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