

CERAM™ 45 PLASTIC

Product Information Sheet

Monolithic Refractory

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

Service Temperature: 2900 °F

Material Required:

155 lb/ft³

Typical Water Required: N/A %

Maximum Grain Size:

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Chemical Analysis

SiO ₂	TiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	Na ₂ O + K ₂ O		
51.4 - 56.4	1.8 - 2.4	38.7 - 45.7	0.9 - 1.5	0 - 0.4	0.8 - 1.4		

Typical Physical Properties

Tested in accordance with International and ASTM Standards

Prefired to	Bulk Density	Cold Crushing Strength	Cold Modulus of Rupture	Permanent Linear Change
(°F)	(lb/ft ³)	(psi)	(psi)	(%)
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	Apparent Porosity	Thermal Conductivity	Hot Modulus of Rupture	Permanent Volume Change
(°F)	(%)	(Btu.in/h.ft ² .F)	(psi)	(%)
230	-	7.2	-	-
1000	-	5.9	-	-
1500	-	6.2	-	-
2000	-	7.9	-	-
2500	-	11.1	-	-

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

Product Number: LEV10098 MX1N MOLD

Effective Date: 11/05/2003

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Revision: B:00

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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