

PRODUCT BULLETIN

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CHICAGO *Fire Brick*

A Division of
**ALLIED MINERAL
 PRODUCTS, INC.**

CW 85 HS PLASTIC

Phosphate Bonded High Alumina Plastic

Maximum Service Temperature.....1760°C (3200°F)

Material Recommended2.92 g/cm³ (182 lb./ft.³)

Storage Beyond 6 Months is not Recommended

Chemical Composition (Dried Basis)

	%
Al ₂ O ₃	83.8
SiO ₂	9.0
P ₂ O ₅	2.5
TiO ₂	2.2
Fe ₂ O ₃	1.1
SO ₃	0.6
MgO	0.3
Alkali	0.3
CaO	0.2

Physical Properties at Room Temperature

Temperature		Density		Linear Expansion	MOR		CCS		HMOR		Porosity
(°C)	(°F)	g/cm ³	lb./ft. ³	%	MPa	psi	MPa	psi	MPa	psi	%
105	220	2.71	169	-0.4	5.5	800	9.3	1350	-	-	-
315	600	-	-	-	-	-	-	-	7.6	1100	-
650	1200	-	-	-	-	-	-	-	11.4	1650	-
815	1500	-	-	-	-	-	-	-	14.8	2150	-
1095	2000	2.69	168	-0.4	10.0	1450	31.0	4500	-	-	25
1400	2550	2.58	161	0.9	3.1	450	28.2	4100	-	-	27
1510	2750	2.55	159	1.4	8.3	1200	22.0	3200	-	-	28
1730	3150	2.58	161	0.8	9.3	1350	27.6	4000	-	-	27

(CWHSP85)

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