

PRODUCT BULLETIN

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CHICAGO *Fire Brick*

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

KAST TECH 60 Mullite Castable

Maximum Service Temperature1649°C (3000°F)
 Material Required Per Cubic Foot2.34 g/cm³ (146 lbs)
 Recommended Water8 - 8.5 %

Storage Beyond 24 Months Is Not Recommended

Chemical Composition (Dried Basis)

Al ₂ O ₃	55.9 %
SiO ₂	36.6
CaO	4.0
TiO ₂	2.0
Fe ₂ O ₃	1.0
Alkalies	0.3
MgO	0.1

Physical Properties at Room Temperature

Temperature		Density		Linear Expansion	MOR		CCS		Porosity	K-factor	
°C	°F	g/cm ³	lb/ft ³	%	MPa	psi	MPa	psi	%	Wm ⁻¹ K ⁻¹	<u>BTU</u> in ft ² ·hr·F
105	220	2.48	150	-0.2	9.0	1300	47.5	6900	-	-	-
820	1500	2.44	146	-0.2	9.6	1400	55.1	8000	23	1.01	7.00
1400	2550	2.32	141	0.0	12.7	1850	68.9	10000	21	-	-
1590	2750	1.92	140	+0.2	9.0	1300	55.1	8000	14	-	-
1640	3000	2.05	143	-0.5	20.7	3000	82.7	12000	-	-	-

Thermal Cycling 1205°C (2200°F) to room temperature 10 cycles: 0 cracks and 0.5% CCS loss.

(CWKT60)

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