

MULCOA® CALCINES

PRODUCT DATA

Mulcoa 47®, Mulcoa 60®, Mulcoa 70®

Description:

C-E Minerals' engineered MULCOA® refractory calcines are made from the highest purity ore deposits. A unique process and stringent process controls ensure consistent homogeneous mineralogy. Uniformity and high mullite content provide the best refractory aggregate to meet the exacting quality demands of the modern refractory industry.

Chemical Analysis (%):

	Mulcoa 47	Mulcoa 60	Mulcoa 70
Al ₂ O ₃	46.8 (46.0 min)	58.6 (58.0 min)	68.8 (68.0 min)
SiO ₂	50.0	37.8	26.8
TiO ₂	1.89	2.21	2.82
Fe ₂ O ₃	0.95 (1.0 max)	1.13 (1.35 max)	1.22 (1.5 max)
CaO	0.04	0.06	0.06
MgO	0.08	0.07	0.08
Na ₂ O	0.09	0.07	0.07
K ₂ O	0.09	0.04	0.05
P ₂ O ₅	0.09	0.10	0.11

Physical Properties:

Bulk Density (ASTM C-357, g/cc)	2.62 (2.60 min)	2.78 (2.75 min)	2.88 (2.80 min)
Apparent Porosity, %	3.6	3.5	4.0
PCE	35 (3245°F)	37 (3308°F)	39 (3390°F)
2800°F (1540°C) Reheat Change			
B.D. g/cc	2.60		
% Volume	+1.5		
2910°F (1600°C) Reheat Change			
B.D. g/cc		2.78	2.88
% Volume		0	0

Mineralogy:

% Mullite	65	77	87
% Glass	20	23	13
% Cristobalite	15	Tr	-

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