
MULCOA[®] 47 NC
PRODUCT DATA

Description:

Mulcoa[®] 47 NC is a high mullite aggregate that is produced by a unique process and calcined in order to obtain maximum mullite and no cristobalite. The free silica is kept in the amorphous phase by the addition of potassium oxide in a controlled manner. This results in the optimum amount of potassium oxide that is sufficient to keep all excess silica in a stable form that does not re-crystallize.

Chemical Analysis (%): (Calcined Basis)	Typical	Minimum	Maximum
Al ₂ O ₃	45.2	44.0	46.0
SiO ₂	50.1		
TiO ₂	1.90		
Fe ₂ O ₃	0.75		0.80
CaO	0.10		
MgO	0.06		
Na ₂ O	0.08		
K ₂ O	1.61	1.4	1.7

Sizes Available:

Available in kiln run only.

Physical Properties:

Bulk Density (ASTM C-357, g/cc)	2.59 (2.50 min)
PCE	34-35 (1750-1770°C)
Coefficient of linear expansion:	20°C – 3.8 x 10 ⁻⁶

Mineralogy:

% Mullite	60
% Glass	40

To Order:

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