



# EL-81

## FUSED CALCIUM ALUMINATE CEMENT FOR REFRACTORIES

### ABOUT:

EL-81 is calcium aluminate cement obtained from fusion of high purity bauxite and calcium carbonate in electric arc furnaces. It is ball milled with alumina addition which makes EL-81 an ideal product for special refractory applications.

#### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	82.52%
SiO <sub>2</sub>	0.20
Fe <sub>2</sub> O <sub>3</sub>	0.47
MgO	0.24
CaO	17.10
Na <sub>2</sub> O	0.28

#### TYPICAL PHYSICAL PROPERTIES

Refractoriness:	1,770° C
Residue on 44 µm:	0.37%
Specific Surface Area (Blaine):	7,330 cm <sup>2</sup> / g
Setting Time (min):	15 to 180

#### MINERALOGICAL COMPOSITION (XRD)

Predominant Phase:	CA (Calcium Aluminate)
Secondary Phases:	CA <sub>2</sub> and α - alumina C = CaO; A = Al <sub>2</sub> O <sub>3</sub>

# USEM

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