

## EL - 70 GUN, E e N

### Calcium Aluminate Cement

EL - 70 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 - 70 an ideal product for special refractory.

#### Chemical Analysis by XRF (%)

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	FeO	MgO	CaO	Na <sub>2</sub> O
68.88	3.37	0.51	0.18	26.60	0.10

#### Mineralogical Analysis by DRX

Predominant Phase	CA (Calcium Aluminate)
Secondary phase	CA <sub>2</sub> e α - Alumina C = CaO e A = Al <sub>2</sub> O <sub>3</sub>

#### Typical Physical Properties

Methods	Units	Results	
Refractoriness	°C	1,605	
+ 325 mesh (+45 μm)	%	0.74	
Specific Surface Area	cm <sup>2</sup> /g	4,738	
Setting Time - Vicat Needle (Cement Paste)	Grades		
	Gun	min	30 a 120
	E	min	125 a 240
	N	min	245 a 600