FUSED CALCIUM ALUMINATE CEMENT FOR REFRACTORIES

ABOUT:
EL-60 is calcium aluminate cement obtained from fusion of high purity bauxite and calcium carbonate in electric arc furnaces. It is recommended for refractory applications.

TYPICAL CHEMICAL ANALYSIS

- $\text{Al}_2\text{O}_3$: 61.66%
- $\text{SiO}_2$: 3.79
- $\text{Fe}_2\text{O}_3$: 0.39
- $\text{MgO}$: 0.32
- $\text{CaO}$: 33.18
- $\text{Na}_2\text{O}$: 0.11

TYPICAL PHYSICAL PROPERTIES

- Refractoriness: 1,450°C
- Residue on 44 µm: 0.25%
- Specific Surface Area (Blaine): 4,709 cm²/g

MINERALOGICAL COMPOSITION (XRD)

- Predominant Phase: CA (Calcium Aluminate)
- Secondary Phases: CA₂ and CA₂AS
  - C = CaO; A = Al₂O₃; S = SiO₂

<table>
<thead>
<tr>
<th>GRADE</th>
<th>SETTING TIME (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUN</td>
<td>0:30 to 2:00</td>
</tr>
<tr>
<td>E</td>
<td>2:05 to 4:00</td>
</tr>
<tr>
<td>N</td>
<td>4:05 to 10:00</td>
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</tbody>
</table>

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