Hydrated sodium calcium borate hydroxide
White to grey color, crystalline material of various shapes
Na₂O•2CaO•5B₂O₃•16H₂O
CAS No. 1319-33-1

**CHEMICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Component</th>
<th>Unit</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>B₂O₃</td>
<td>%</td>
<td>37.00 +/- 1.00%</td>
</tr>
<tr>
<td>CaO</td>
<td>%</td>
<td>19.00 max</td>
</tr>
<tr>
<td>SiO₂</td>
<td>%</td>
<td>4.00 max</td>
</tr>
<tr>
<td>SO₄</td>
<td>%</td>
<td>0.25 max</td>
</tr>
<tr>
<td>As</td>
<td>ppm</td>
<td>40.00 max</td>
</tr>
<tr>
<td>Fe₂O₃</td>
<td>%</td>
<td>0.04 max</td>
</tr>
<tr>
<td>Al₂O₃</td>
<td>%</td>
<td>0.25 max</td>
</tr>
<tr>
<td>MgO</td>
<td>%</td>
<td>2.50 max</td>
</tr>
<tr>
<td>SrO</td>
<td>%</td>
<td>1.00 max</td>
</tr>
<tr>
<td>Na₂O</td>
<td>%</td>
<td>3.50 min</td>
</tr>
<tr>
<td>Moisture</td>
<td>%</td>
<td>1.00 max</td>
</tr>
</tbody>
</table>

**PHYSICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Mesh Size</th>
<th>Unit</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 100 mesh</td>
<td>%</td>
<td>0.25 max</td>
</tr>
<tr>
<td>-325 mesh</td>
<td>%</td>
<td>75.00 min</td>
</tr>
</tbody>
</table>

**Other Properties**
- Melting Point*: 870 °C (*Pure Ulexite)
- Solubility in Water: 26.67% as dissolved Ulexite @ 25 °C by weight of solution
- pH: 8.5 (1.0% solution @ 20 °C)
- Aprox. Bulk Density: 41 lbs/ft³
- Decomposition: Dehydration begins 45 °C

**Packaging**
Ulexite (45 micron) is available in bulk, in 1 MT (2,205 lb.) super sacks and in 25 kg net (55.1 lb. net) multiwall paper bags. Custom packaging is available.

Specification data is determined by Eti Maden analytical methods