Cermatpro White Fused Mullite
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Data Sheet

White Fused Mullite
Schmelzmullit
Mullite Electrofondue

A high quality White Fused Mullite with extensive use in the production of steel, glass and ceramic refractories.

Produced from electrofusion of Bayer process calcined alumina with selected low iron silica.

Major phases identified by X-Ray Diffraction as Mullite with traces of glass and corundum. Mullite - the most stable phase of the Alumino-Silicate system, is found rarely in nature and is inevitably subject to contamination from other rock formations and contaminants. Synthetic Mullite enables complete control of the chemistry and physical properties promoting complete control of the final ceramic system.

Individual crystallites are in the order of 50 mm in length and are formed, on cooling from the melt to provide discrete crystals of Mullite exhibiting:
- High thermal shock resistance
- Low thermal expansion
- Low glass content
- Controlled surface properties
- Excellent creep resistance

Cermatco is able to give complete specifications for an iron-free material down to ppm levels.

Standard sizes are:
- 5 - 3 mm - 0.08 mm
- 3 - 1.0 mm - 45µ
- 1.0 - 0.00 mm
- 0.5 mm
- 0.15 mm

Chemical Analysis

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>Oxide</th>
<th>%</th>
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<tbody>
<tr>
<td>Bulk Density</td>
<td>SiO₂</td>
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<tr>
<td></td>
<td>TiO₂</td>
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<tr>
<td></td>
<td>Al₂O₃</td>
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<tr>
<td></td>
<td>Fe₂O₃</td>
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<tr>
<td></td>
<td>CaO</td>
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<td>MgO</td>
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<td>K₂O</td>
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<tr>
<td></td>
<td>Na₂O</td>
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</tr>
</tbody>
</table>

Specials

Complete formulations of Fused Mullite are available providing you with a cost-effective controlled mix.