A-Flex® Muscovite Micas

A-Flex® Muscovite Mica maintains a high aspect ratio of potassium aluminum silicate which exhibits superior brightness and purity.

A-Flex® Muscovite Mica industrial applications include:

- **Plastics** – These micas are excellent additives for plastics to improve flexural modulus, tensile strength, and dimensional stability and as an excellent extender for glass fiber.
- **Coatings** – When used in coatings, mica platy structure imparts a barrier in the film to improve moisture resistance, chemical resistance, brush ability and promotes film adhesion.

### Chemical Abstract Registry (CAS) No.

- **MR8O - T3**

<table>
<thead>
<tr>
<th>Median Particle Size (d50)</th>
<th>Microns</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Passing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40 Mesh</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>100 Mesh</td>
<td></td>
<td>98</td>
</tr>
<tr>
<td>325 Mesh</td>
<td></td>
<td>54</td>
</tr>
<tr>
<td>Bulk Density</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(lbs./ft³)</td>
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<td>14.30</td>
</tr>
<tr>
<td>(g/cc)</td>
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<td>0.22</td>
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<tr>
<td>Aspect Ratio</td>
<td></td>
<td>20-40</td>
</tr>
</tbody>
</table>

### Typical Chemical Analysis (WT. %)

- **SiO₂** 46
- **MgO** 0.9
- **Al₂O₃** 31.6
- **Fe₂O₃** 4.9
- **K₂O** 10.5
- **TiO₂** 0.2

### Typical Properties

- **True Density** 2.85 g/cc
- **Melting Point** 1,300°C
- **Moisture % (@100°C)** <0.4
- **pH** 9.0
- **LOI @ 1,000 °C** <4.5
- **Mohs Hardness** 2.5

### Contact Information

Contact us at: 812-283-6616
or Visit: ArcticMinerals.com

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