Magneli Materials Data Sheet

Stabilized Magneli Phase Titanium Oxide
Electrically Conductive Ceramic Powder

Physical Characteristics

<table>
<thead>
<tr>
<th>Stabilized Magneli Phase Material</th>
<th>Material Number JB15</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Blue Black Micro Grade Powder</td>
</tr>
<tr>
<td>Mean particle size (um)</td>
<td>20</td>
</tr>
</tbody>
</table>

Composition (XRD)

NOTE: Fitting Halted at iteration 55, Round 4: R=15.35% (E=0.76%, P=68, EPS=0.5)

- **Blue Black electrically conductive powder**
  - Produced by proprietary process
- **High Ti4O7 Content**
- **Structurally Stabilized Shear Planes**
- **High Resistance to oxidation and corrosion in acid and base solutions**

Scanning Electron Micrographs

The information disclosed in this data sheet is provided as an illustration of the properties of Stabilized Magneli Phase Titanium Oxide provided as an illustration of the properties of this material and should not be construed as a guarantee of the suitability of the material for a particular application.

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Material Number JB15  
Blue Black Micro Grade Powder

Physical Characteristics

▪ Blue Black electrically conductive powder
▪ Produced by proprietary process
▪ High Ti407 Content
▪ Structurally Stabilized Shear Planes
▪ High Resistance to oxidation and corrosion in acid and base solutions