Mineral Solutions for Tableware

Technical datasheets

Imerys Ceramics, world leading supplier of industrial solutions

From our mines and installations we have developed a comprehensive offering for the ceramic industries.

Imerys Ceramics is the European leading supplier of mineral solutions for the tableware industry.

Customers worldwide include the most prestigious brands

Imerys Ceramics’ tailor-made offering to tableware manufacturers include:

- high quality products
- laboratories dedicated to tableware formulation
- state of the art technical service
- on-site production support

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** M.B.I.: Methylene Blue Index - the amount of methylene blue dye required to saturate the surface of the clay.
## Typical Data

<table>
<thead>
<tr>
<th>Chemical Analysis (mass %)</th>
<th>Filtercake</th>
<th>Premium</th>
<th>Premium Granules</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiO₂</td>
<td>48</td>
<td>49</td>
<td>49</td>
</tr>
<tr>
<td>Al₂O₃</td>
<td>35.5</td>
<td>35.5</td>
<td>35.5</td>
</tr>
<tr>
<td>Fe₂O₃</td>
<td>0.29</td>
<td>0.29</td>
<td>0.29</td>
</tr>
<tr>
<td>TiO₂</td>
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<td>0.09</td>
<td>0.09</td>
</tr>
<tr>
<td>CaO</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>MgO</td>
<td>0.02</td>
<td>0.02</td>
<td>0.02</td>
</tr>
<tr>
<td>LOI</td>
<td>13.8</td>
<td>13.8</td>
<td>13.8</td>
</tr>
</tbody>
</table>

**Particle Size Analysis (%)**
- < 240 mesh: < 0.1
- < 200 mesh: < 0.1

**Physical Properties**
- Specific gravity: 2.35
- Moisture content (%): 1
- Surface area (m²/g): 24

**Kaolins**

<table>
<thead>
<tr>
<th>TYPICAL DATA</th>
<th>SSS</th>
<th>SSPD</th>
<th>Standard</th>
<th>Extruded</th>
<th>Traverso</th>
<th>CR</th>
<th>Super</th>
<th>BP</th>
<th>ESP</th>
<th>MGO Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>SiO₂</td>
<td>48</td>
<td>46</td>
<td>46</td>
<td>49</td>
<td>49</td>
<td>49</td>
<td>49.8</td>
<td>49</td>
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<tr>
<td>Al₂O₃</td>
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<tr>
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<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
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<tr>
<td>TiO₂</td>
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<tr>
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<td>2.05</td>
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<tr>
<td>MgO</td>
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<td>0.1</td>
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<td>0.20</td>
<td>0.17</td>
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<tr>
<td>LOI</td>
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<td>12.8</td>
<td>12.5</td>
<td>12</td>
<td>11.7</td>
<td>14.0</td>
<td>11.7</td>
<td>11.2</td>
<td>11.6</td>
<td>11.0</td>
</tr>
</tbody>
</table>

### Chemical Analysis (mass %)

- Kfepite / Halloysite: 95
- Feldspar: 95
- Micaeous material: 95
- Other minerals: 95
- Particle size analysis (%): 95
- Particle size analysis (mass %): 95
- Surface area (m²/g): 95

**Pressing Bodies**

<table>
<thead>
<tr>
<th>Typical Data</th>
<th>E118ST</th>
<th>E12024</th>
<th>E20327</th>
<th>E24027</th>
<th>E10103</th>
<th>E45077</th>
<th>E46117</th>
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</thead>
<tbody>
<tr>
<td>Firing temperature (°C)</td>
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<td>1400-1410</td>
<td>1400-1410</td>
<td>1400-1410</td>
<td>1390-1390</td>
<td>1290-1290</td>
<td>1290-1290</td>
</tr>
</tbody>
</table>

### Chemical Analysis (mass %)

- SiO₂: 70.2
- Al₂O₃: 13.8
- Fe₂O₃: 0.31
- TiO₂: 0.01
- CaO: 1.79
- MgO: 0.04
- LOI: 6.8
- Shrinkage (%): 1.7

**Delivery Form**

- Powder
- Liquid
- Powder
- Spray-dried
- Powder
- Spray-dried
- Powder

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These values do not represent a specification. The data quoted are determined by the use of Imerys Standard Test Methods, copies of which will be supplied on request. Every precaution is taken to ensure the products conform to our published data. Since the products are based on naturally occurring materials, we reserve the right to change these data should it become necessary. Sales are in accordance with our "Conditions of Sale," copies of which will be supplied on request.