Hess Grade 4

**PARTICLE SIZE SPECIFICATION** GRADE 4

<table>
<thead>
<tr>
<th>SIZE</th>
<th>ALLOWABLE PERCENT PASSING</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICRON [MM]</td>
<td>U.S. MESH</td>
</tr>
<tr>
<td>1400 [1.4]</td>
<td>14</td>
</tr>
<tr>
<td>850 [0.85]</td>
<td>20</td>
</tr>
<tr>
<td>600 [0.6]</td>
<td>30</td>
</tr>
<tr>
<td>425 [0.425]</td>
<td>40</td>
</tr>
<tr>
<td>300 [0.3]</td>
<td>50</td>
</tr>
<tr>
<td>250 [0.25]</td>
<td>60</td>
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</tbody>
</table>

TEST METHOD: ASTM C136-06

**LOOSE BULK DENSITY** GRADE 4

48 lb/per cubic foot [768.8 kg/per cubic meter] (ASTM C29)

**CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES**

**Chemical Name:** Amorphous Aluminum Silicate

**TYPICAL ANALYSIS**
- Silicon Dioxide: 76.2%
- Aluminum Oxide: 13.5%
- Ferric Oxide: 1.1%
- Ferrous Oxide: 0.1%
- Sodium Oxide: 1.6%
- Potassium Oxide: 1.8%
- Calcium Oxide: 0.8%
- Titanium Oxide: 0.2%
- Magnesium Oxide: 0.05%
- Moisture: <1.0%
- Crystalline SiO₂: None Detected

**GENERAL PROPERTIES**
- Appearance: White powder
- Hardness (MOHS): 6
- pH: 7.2
- Radioactivity: None
- Softening Point: 900 degrees C
- Water Soluble Substances: 0.15%
- Loss on Ignition - 5%
- GE Brightness: 84
- Specific Gravity: 2.4
- Reactivity: Inert
  (except in the presence of calcium hydroxide or hydrofluoric acid)

**DESCRIPTION**
Amorphous (non-crystalline) in structure and composed primarily of aluminum silicate, pumice is a naturally calcined volcanic glass foam consisting of highly vesicular strands permeated with tiny air bubbles. It is these frothy, friable glass vesicles that, when carefully refined to various grades, give pumice its unique and infinitely useful qualities.

**GRADE APPLICATIONS**
Used for: filtration.

**PACKAGING OPTIONS**
- 1 lb or 1 kg resealable bags
- 40 lb [18 kg] bags
- 55 lb [25 kg] bags (palleted)
- 1600 lb [726 kg] super sacks (palleted)
- 2000 lb [907 kg] super sacks (palleted)
- Bulk shipped in rail car or tractor trailer

**DISTRIBUTOR NETWORK**
We have stocking distributors in 23 countries on every continent except Antarctica, allowing us to deliver pumice quickly and economically worldwide.