

### GENERAL DESCRIPTION

- PRODUCT:** Filteraid Grade expanded perlite
- DESCRIPTION:** Fine-grade particles for use with vacuum or plate filter presses. Also as a baghouse pre-coat.



### DRY SIEVE ANALYSIS

| US MESH | MICRONS | % RETAINED BY WT.<br>(CUMULATIVE) | % PASSING |
|---------|---------|-----------------------------------|-----------|
| No. 200 | 75      | 10—50                             | 50—90     |
| No. 325 | 45      | 40—90                             | 10—60     |
| PAN     | 0       | 100                               | 0         |

### SUPPLEMENTARY INFORMATION

- **Wet cake density:** 11.0—12.0 lb/ft<sup>3</sup> (approx.)
- **Typical flow rate:** >1 Darcy (0.6 — 0.7 ml/s)

|                              |                                    |
|------------------------------|------------------------------------|
| <b>CHEMICAL NAME:</b>        | Sodium Potassium Aluminum Silicate |
| <b>APPEARANCE:</b>           | White powder, odorless             |
| <b>LOOSE BULK DENSITY:</b>   | 6.0 — 9.0 lb/ft <sup>3</sup>       |
| <b>pH (OF WATER SLURRY):</b> | Neutral                            |
| <b>REFRACTIVE INDEX:</b>     | 1.5                                |
| <b>HARDNESS (MOHS):</b>      | 5.5                                |
| <b>FUSION POINT:</b>         | 2300 – 2450 °F                     |
| <b>FLASH POINT:</b>          | Non-flammable                      |
| <b>SPECIFIC GRAVITY:</b>     | 2.2 – 2.4                          |

**SOLUBILITY:**

Negligible in water and weak acids.\*

\* Soluble in hot concentrated alkali and HF; moderately (less than 10%) in 1N NaOH. Slightly (less than 3%) in mineral acid.



**SUPREME PERLITE** Filteraid Grade consists of fine mesh particles sorted for consistency by air-classification. Particles range in size from U.S. Mesh 100-325 with the majority retained between a 200 and 325 Mesh screen.

Perlite filteraids are ideally suited for use with higher flow-rate applications. They are derived from naturally occurring volcanic glass, and typically do not contain crystalline silica. Perlite filteraids are: 100% natural, inert, stable, pH-neutral, ultra-lightweight and have excellent flow characteristics.

| Mineral Content                | %    |
|--------------------------------|------|
| SiO <sub>2</sub>               | 74.0 |
| Al <sub>2</sub> O <sub>3</sub> | 14.0 |
| K <sub>2</sub> O               | 4.5  |
| Na <sub>2</sub> O              | 3.6  |
| CaO                            | 0.9  |
| Fe <sub>2</sub> O <sub>3</sub> | 0.7  |
| MgO                            | 0.1  |

### PACKAGING OPTIONS

- 4 cu. ft. (113 L) paper bags
- 60 cu. ft. super sacks (2.2 yd/1.7 m<sup>3</sup>)
- 56 cu. ft. super sacks (2.1 yd/1.6 m<sup>3</sup>)