

## Filtraflo<sup>®</sup> 411 Filler

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Filtraflo 411 is a fine white powder made from perlite, a silica-alumina mineral. The powder is chemically inert with low solubilities in mineral and organic acids at both high and low temperatures. Solubilities in strong alkalis will vary according to temperature and time of contact. This powder is abrasive.

### Applications

Filtraflo 411 has a variety of applications due to its properties of being white, absorptive and abrasive. Typical applications include fillers in paints and powders, anti-caking agents, scouring and polishing ingredients in scourers, rubbing compounds, polishes and cleaners.

The high silica content and relatively large surface area makes Filtraflo 411 an ideal agent for the defluorination of phosphoric acid.

### Typical Physical Characteristics

|                                |                              |
|--------------------------------|------------------------------|
| Refractive index               | 1,5                          |
| Maximum free moisture          | 0,5%                         |
| Specific gravity               | 2,2 - 2,4                    |
| Bulk Density (Loose)           | approx 220 kg/m <sup>3</sup> |
| Softening point                | 870 - 1093°C                 |
| Fusion point                   | 1260 - 1343°C                |
| Specific heat                  | 837 J/kgK                    |
| G E Brightness                 | 78 - 82                      |
| Gardner Coleman oil absorption | 180%                         |
| ASTM Rub-out oil absorption    | 150%                         |
| Water absorption               | 250%                         |
| Surface area (ASTM C-204)      | 2,6m <sup>2</sup> /g         |

### Typical Sieve Analysis

**Median Particle Size** : 15 µm

| <b><u>Particle Size</u></b><br><b>(microns)</b> | <b><u>Mass</u></b><br><b>(%)</b> |
|---|----------------------------------|
| on 100  | 1                                |
| on 50   | 11                               |
| on 20   | 41                               |
| pass 20   | 59                               |

### Toxicity

Being an amorphous glass, Filtraflo 411 is non-toxic and non-hazardous. Being a fine powder it produces nuisance dusts and paper dust masks should be worn.