

## Filtraflo<sup>®</sup> 411 Filler

Filtraflo<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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

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

### Toxicity

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