

## **TECHNICAL DATA SHEET**

### **Hectorite Hydroclay**

**Description:** Hectorite Hydroclay additive is a highly beneficiated, easily dispersible powdered smectite clay. It imparts thixotropic viscosity and good suspension control to the water phase of cosmetics.

**INCI Name:** Hectorite

**CAS:** 12173-47-6

#### **Chemical & Physical Properties:**

<b>Drying Loss %</b>	max. 7.5
<b>Thru 200 Mesh Sieve %</b>	94.0 – 100.0
<b>Gel Ability (cP)</b>	1600 - 2400

*These are typical properties not to be used for specification purposes*

#### **Key Properties:**

- Vegan
- Is easily processed as a powder or pre-gel
- Increases the viscosity of the aqueous phase and stabilises viscosity on ageing, at varying temperatures and under different shear conditions
- Imparts thermostable thixotropy/pseudoplasticity
- Provides excellent suspension control
- Reduces phase separation and syneresis
- Is non-abrasive and imparts smooth silky feel to cosmetics and personal care products

#### **Incorporation:**

Hectorite Hydroclay additive is easy to process. No chemical activator or increased temperature is required.

- Add Hectorite Hydroclay to a vessel containing only water. If necessary, adjust pH level to less than pH 7.5. High pH may lead to dispersion difficulties due to rapid hydration of Hectorite Hydroclay, whereas a low pH leads to reduced efficiency and excessively long hydration times.

- Mix at highest practicable speed for 10 minutes.
- After sufficient hydration time, introduce glycols, defoamers, biocides, dispersants etc. (mix).
- Add pigments, fillers, active ingredients and disperse.
- Complete dilution

**Use:** Typical use levels of Hectorite Hydroclay are 0.3% to 1.0% based on total system weight.

**Applications:** O/W Emulsions, W/O Emulsions, Creams, Lotions, Anti-Perspirants, Deodorants, Colour Cosmetics, Face Packs, Facial Make-Up, Sun Care Products, Hair Care Products

**Country of Origin:** Germany

**Raw material source:** Smectite clay

**Animal Testing:** Not animal tested

**GMO:** Not tested for GMOs

**Vegan:** Does not contain animal-derived components