

# **BT-186**

Organophilic Bentonite

Rheological Additive

**Technical Data Sheet**

**Startriumph New Material Co., Ltd**

Email: [info@startriumph.com](mailto:info@startriumph.com)

[www.startriumph.com](http://www.startriumph.com)

## 1. Product Description

BT-186 is an organophilic (organic modified) bentonite rheological additive supplied as a light yellow free-flowing powder.

It provides excellent thickening, anti-settling and thixotropic properties in medium to high polarity solvent systems.

BT-186 is especially effective in ester- and alcohol-containing formulations and can partially or fully replace BENTONE®-27 or fumed silica (SiO<sub>2</sub>) in many applications.

## 2. Typical Physical & Chemical Properties/Item Specification

Appearance:	Light yellow free-flowing powder
Volatile content (105°C, 2h)	≤ 3.5 %
Particle size (<76 µm, 200 mesh)	≥ 95 %
Viscosity (7% gel in xylene, 25°C)	≥ 4.0 Pa·s
Loss on ignition (850–900°C)	≤ 40 %

## 3. Key Features

- Excellent thixotropy and sag resistance
- Strong anti-settling performance for pigments & fillers
- Good viscosity build in medium/high polarity systems
- Easy incorporation after proper activation
- Cost-effective alternative to Bentone-27 and fumed silica
- Stable batch-to-batch consistency

## **4. Recommended Solvent Systems**

BT-186 performs well in:

- Xylene
- Heavy aromatic solvents
- Butyl acetate
- Ketones
- Alcohols
- Ester/alcohol mixed systems

Particularly outstanding thickening efficiency in ester- or alcohol-rich formulations.

## **5. Applications**

Widely used in

- Anti-corrosion coatings
- Industrial paints
- Solvent-based coatings
- Primers
- Adhesives & sealants
- Inks

## **6. Incorporation & Processing**

For best performance:

High-speed dispersion is required

Grinding/milling recommended

Use polar activator (e.g., methanol/ethanol/water blends)

Pre-gel method provides optimal viscosity development

Typical addition level: 0.3 – 2.0% (depending on system and requirement)

## **7. Equivalent International Grade**

Comparable to: Elementis BENTONE®-27

## **8. Packaging**

Double-layer kraft paper bag with PE inner liner

Valve bag available

Net weight: 25 ± 0.25 kg

Custom packaging available upon request

## **9. Storage & Shelf Life**

Store in dry and ventilated conditions

Recommended temperature: 0–30°C

Keep moisture tightly sealed

Shelf life: 24 months

## **10. Safety Information**

Please refer to the Safety Data Sheet (SDS) before handling.

Avoid dust inhalation and use appropriate protective equipment.