

BT-184

Organophilic Bentonite
Rheological Additive
for Aromatic Solvent Systems
Technical Data Sheet

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1. Product Description

BT-184 is a tetraalkyl ammonium modified organophilic bentonite supplied as a light yellow free-flowing powder.

It is primarily designed for solvent systems based on aromatic hydrocarbons and provides highly efficient gelling and rheological control in medium to low polarity organic systems.

2. Typical Physical & Chemical Properties

Property	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)	≥ 3.0 Pa·s
Loss on ignition (850–900°C)	≤ 40 %

The above values represent typical test results and do not constitute a guaranteed specification.

3. Key Features

- Highly efficient gelling in aromatic solvent systems
- Strong viscosity development in medium to low polarity solvents
- Excellent thixotropic behavior
- Superior anti-settling performance
- Stable viscosity from sub-zero to elevated temperatures
- Reinforcing effect in organic binder systems
- Requires polar activator for optimal performance

4. Recommended Applications

BT-184 performs particularly well in:

- Aromatic hydrocarbons (xylene, toluene, heavy aromatics)
- Medium to low polarity organic solvent systems
- Solvent-based resin formulations

5. Applications

Widely used in:

- Industrial paints
- Printing inks
- Sealants
- Greases
- Putty and body fillers
- Alkyd coatings
- Solvent-based coatings

6. Incorporation Method

- High-speed dispersion is required
- Use of polar activator (e.g., methanol/ethanol/water blends) is recommended
- Pre-gel method can further improve viscosity development

The optimal dosage should be determined through laboratory testing according to specific formulation requirements.

7. Comparable International Grades

Comparable to:

- BENTONE® -34
- BENTONE® -52

8. Packaging

- Double-layer kraft paper bag with PE inner liner
- Valve paper bag available
- Net weight: 25 ± 0.25 kg
- Custom packaging available upon request

9. Storage

- Store in dry and ventilated conditions
- Recommended storage temperature: 0–30°C
- Keep container tightly sealed to prevent moisture absorption
- Shelf life: 24 months

10. Safety Information

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

Avoid dust inhalation and use appropriate personal protective equipment.