BT-185

Organophilic Bentonite

Rheological Additive

for Transparent & Light-Colored Systems

Technical Data Sheet

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1. Product Description

BT-185 is an improved-grade organophilic bentonite rheological additive supplied as a pure white free-flowing powder.

It combines strong thickening efficiency with excellent anti-settling and anti-sag properties, while offering superior whiteness and high transparency in gel systems. The gel formed is colorless or light-colored, making it particularly suitable for transparent and light-colored formulations.

2. Typical Physical & Chemical Properties

Property	Specification
Appearance	White free-flowing powder
Volatile content (105°C, 2h)	≤ 3.5%
Particle size (<76 μm, 200 mesh)	≥ 95%
Viscosity (7% gel in xylene, 25°C)	≥ 2.5 Pa·s
Fineness (Hegman gauge, unground)	≤ 60 μm
Loss on ignition (850–900°C)	≤ 40 %

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

3. Key Features

- High thickening efficiency
- Excellent anti-settling and anti-sag performance
- Pure white appearance
- High transparency in gel systems

• Improved anti-yellowing performance
• Easy dispersion
• Suitable for medium to low polarity solvent systems
• Requires polar activator for optimal performance
• Cost-effective alternative to fumed silica

4. Recommended Solvent Systems

• BT-185 performs well in:
• Medium to low polarity organic solvent systems
• Aromatic hydrocarbon systems
• Resin-based solvent formulations

5. Applications

Widely used in:
• Transparent coatings
• Printing inks
• Cosmetics formulations
• Sealants
• Greases
• Hot stamping foils
• Nano-composite materials
• Light-colored industrial coatings

6. Incorporation Method

• High-speed dispersion is recommended
• Use of polar activator (e.g., methanol/ethanol/water blends) is required

• Pre-gel method can further enhance viscosity development

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

7. Comparable International Grades

Comparable to:

• BENTONE®-38

• CLAYTONE® 40

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.