



ORGANOCLAY BENTHIX EF1

Rheological Additive

BENTHIX EF1 is an organoclay (tetraalkyl ammonium bentonite) for solvent-based systems of **low to medium** polarity.

1. Advantages:

- ☆ High gelling efficiency over low to medium polarity organic liquids, especially in aliphatic and aromatic solvent and the compound of above.
- ☆ Easy of incorporation. No need for polar activator or making pregel.
- ☆ Consistent in rheology and thixotropy development.
- ☆ Excellent sag resistance and control of viscosity.
- ☆ Produce gel with light color and high transparency.
- ☆ Can be added at any step, even can be used in post-addition to correct the final viscosity of a certain batch.

2. Typical Properties:

| Color | Appearance | Density | Moisture (@105°C, 2hrs) | Fineness through 200 mesh | Loss on Ignition (@1000°C) |
|------------|---------------------|-----------------------|-------------------------|---------------------------|----------------------------|
| White Clay | Free Flowing Powder | 1.60g/cm ³ | ≤3.5% | ≥98% | ≤38% |

3. Typical Applications:

- Acrylic paint
- Adhesive
- Alkyd paint
- Anti-corrosion paint
- Chlorinated rubber paint
- Primer paint
- Polyester paint
- Road paint
- Silica paint
- Wooden paint
- Varnish
- Inks (Mineral oil)
- Inks (Nitro)
- Nitro lacquer
- Sealant
- Lubricating grease
- Cosmetics

4. Incorporations:

BENTHIX EF1 belongs to the unconventional type of organoclays group, being an easy-to-disperse, self-activated organoclay, it does not require a chemical (polar) activator to reach the proper level of delamination of the organoclay platelet stacks.

BENTHIX EF1 can be added at any point in the manufacturing process. If addition is made with polar activator or after grinding, better performance can be expected.

5. Recommended Levels:

The amount of BENTHIX EF1 rheological additive required depends upon the type of organic system and the degree of thickening or other properties desired. Addition levels are typically between 0.2%-2.0% based on the total formulation weight.

6. International Countertypes:

Bentone®SD-1, Claytone®HY/AF, TIXOGEL® EZ-100 Bentone®54.