

ITOTONE 885

ORGANOCLAY RHEOLOGICAL ADDITIVE FOR SOLVENT BASED SYSTEM



PROPERTIES

- **Appearance** : Light (Yellow), Free-flowing Powder
- **Moisture Content (@105°C, 2 hrs)** : < 3.5%
- **Granularity (<76µm or 200mesh)** : > 98%
- **Viscosity (7% xylene gel, 25°C)** : > 4.0 Pa•S
- **Loss on Ignition (@800-900°C)** : < 40%
- **Heavy Metal (Pb)** : <15 ppm
- **Heavy Metal (Cd)** : <15 ppm
- **Heavy Metal (Cr)** : <15 ppm
- **Heavy Metal (Hg)** : <15 ppb
- **Arsenic (As)** : < 5mg/kg

APPLICATION

- **Solvent Polarity range** : Middle to high polarity, compound solvent of ketone and alcohol
- **Dispersion Conditions** : High speed dispersion and polar activator. Use 95% ethanol at rate of 40-50% of weight of ITOTONE 883. grind to improve fineness.
- **Addition method** : Pre-gel
- **Organoclay addition** : 10% ITOTONE 885
- **Solvent addition** : 85% Xylene / n-butanol (4:1)
- **Activator addition** : 5% of either 95% ethanol or 95% methanol

CHARACTERISTICS

1. Free-flowing powder with light colour. Needs polar activator.
2. Applicable to middle to high polar solvent system, especially in the solvent which contain alcohols or esters.
3. It enjoys the leading place in thickening and viscosity in China market.
4. Used in anticorrosion paints, industrial paints, etc.
5. Similar to Bentone 27.

DISCLAIMER

The information herein offered is based on the best of our knowledge at present. However, we are not able to guarantee these matters, as the result of application may vary according to conditions adopted. Preliminary tests are, therefore, recommended in all cases. Please refer to MSDS regarding handling of the products.

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IMAGINATION INK[™]



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APPENDIX

Pre gel addition

ITOTONE 885 is made up of lamellar structure polymer. Under shear, solvent penetrates the capillary gap and causes wetting. This leads to lamellar structure polymer de-agglomeration. Addition of high shear or a polar activator under low shear causes the lamellar polymer structure become separated completely and form a gel structure as edge to edge hydrogen bonding occurs making a structure like a house of cards. This is known as pre-gel addition.

Preparation of pre-gel

1. Add 85-87% of solvents or mixed solvents
2. Add ITOTONE series organoclay and disperse at high speed (2500rpm for 5-10 minutes)
3. Add polar activator and disperse at high speed (2500rpm for 15-20 minutes).

Addition of ITOTONE pre-gel

- A. For poor wetting resin systems use in combination with surfactant and use the following addition process.
1. Charge resin and solvents and mix.
 2. Add ITOTONE pre-gel mixture and mix.
 3. Add surfactant.
 4. Add pigment and disperse
 5. Dilute
- B. For poor wetting capacity resin and non thixotropic grind materials use the following addition process
1. Charge resin and solvents and mix.
 2. Add surfactant (if required)
 3. Add pigment
 4. Disperse to the desired fineness with grinding
 5. add ITOTONE pre-gel
 6. Disperse completely to desired fineness
 7. Dilute.

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