

BENTONE® 128

Rheological additive for printing inks

GENERAL INFORMATION

BENTONE 128 rheological additive is a special organically modified montmorillonite clay designed for non-polar printing inks based on naphthenic and paraffinic solvents and oils. It will also gel inks containing solvent of intermediate polarity.

CHEMICAL & PHYSICAL PROPERTIES

| | |
|---------------|--|
| Composition | organic derivative of a special montmorillonite clay |
| Color | very light tan |
| Form | finely divided powder |
| Particle size | < 1 μm |
| Density | 1.6 g/cm ³ |

These are typical properties not to be used for specification purposes.

APPLICATIONS

- Heatset web offset inks
- Sheetfed offset inks
- Letterpress inks
- News inks
- Rubber base inks
- Ultra-violet curable inks

KEY PROPERTIES

- Is specifically designed for printing inks, and unlike other gelling agents, it requires less shearing action than conventional organoclays to impart ultimate viscosity
- Reduces misting
- Increases plastic viscosity and "Yield Value" of inks without excessive increase in tack and thixotropy
- Prevents excessive penetration of the ink into porous substrates

- Imparts particle suspension, preventing agglomeration
- Allows the ink manufacturer to produce low tack inks at relatively high viscosity
- Improves sharpness of printing and reproduction of printing inks
- Prevents flooding and floating of tint colors

INCORPORATION

BENTONE 128 additive can typically be incorporated into printing inks using only a high-speed disperser, but it is also suitable for inks processed on three roll mills and through media mills. **BENTONE 128** can be weighted with the rest of the ink ingredients such as varnishes, flushes and pre-dispersed pastes or used as a post-add to correct out-of-spec-batches.

Chemical activators

BENTONE 128 additive requires no chemical activator in order to obtain full gel development.

LEVELS OF USE

The level of **BENTONE 128** additive to be used depends on the ink tack level, the type of the ink system and the degree of thickening or other properties desired.

From 0.5 to 1.5% **BENTONE 128** additive is sufficient for most inks.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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