

CLAYTONE HT

Rheological Additive

Product Data

Special Features and Benefits

CLAYTONE HT is a modified montmorillonite designed to be used in aliphatic/aromatic, aromatic, and polar/aromatic systems that exhibit medium polarity. CLAYTONE HT functions as a thixotropic rheology modifier generating properties such as flow control and anti-setting. CLAYTONE HT provides reliable and reproducible rheological properties in solvent based paints, stains, enamels, primers, and inks as well as other applications. CLAYTONE HT requires the use of a polar activator to achieve full efficiency.

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Color:	Very light cream
Form:	Free flowing, finely divided powder
Moisture:	<3.0 %
Loss on Ignition (1000 °C/1800 °F):	36.5-40.5
Specific Gravity (Density):	Metric 1.7 g/cm ³ , English 14.2 lbs./gal.
Bulk Density:	Metric 500-600 g/l, English 31-37 lbs/ft. ³
Dry Sieve Size:	Metric 95 % < 75µm, English 95 % < 200 mesh

Recommended Use

- Solvent based paints and stains
- Lubricating greases
- Adhesives
- Caulks and sealants
- Cosmetics and personal care
- Inks

Incorporation and Processing Instructions

CLAYTONE HT does not require heat for dispersion. It should be incorporated in the grind phase and subjected to high shear. For maximum efficiency, CLAYTONE HT should be incorporated with a polar activator. Typical polar activators include propylene carbonate, 95/5 methanol/water, 95/5 ethanol/water, or acetone. The optimum amount of polar activator will generally vary between 20 % to 60 % of the weight of CLAYTONE HT and should be experimentally determined for each formula.

Storage and Transportation

Typically CLAYTONE HT can be stored under dry conditions between temperatures of 0 °C and 30 °C (32 °F to 85 °F) for up to two years.

Recommended Levels

Use levels of CLAYTONE HT are typically 0.2 % to 2.0 % of the weight of the system.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

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