

CLAYTONE-PI

Rheology modifier based on an organophilic phyllosilicate designed to be used in aliphatic and aromatic systems. CLAYTONE-PI generates thixotropic flow properties such as flow control, anti-misting and anti-settling. CLAYTONE-PI provides reliable and reproducible rheological properties in inks as well as other applications. CLAYTONE-PI does not require the use of a polar activator to achieve full efficiency.

Product Data

Composition

Organophilic phyllosilicate

Typical Properties

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

Bulk density: 352 kg/m³
Density (20 °C): 1.60 g/cm³
Supplied as: Free flowing powder
Moisture: 2 %

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation

Typically CLAYTONE-PI should be stored under dry conditions between temperatures of 0 °C and 30 °C. CLAYTONE-PI is moisture sensitive. Pallet stacking should be no more than two pallets high in order to prevent compaction.

Applications

Printing Inks

Special Features and Benefits

Can be used in ink formulations with a wide polarity range. Improves rheological properties such as flow control, anti-misting and anti-settling. Compatible with organic, inorganic and carbon black pigments.

Recommended Use

CLAYTONE-PI is recommended for use with offset inks where good flow, anti-misting and anti-settling properties are required in wide polarity systems.

Recommended Levels

0.2 % to 2.0 % additive (as supplied) based on the total formulation.

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

Incorporation and Processing Instructions

CLAYTONE-PI does not require heat for dispersion. It may be incorporated in the grind phase and subjected to high shear. Alternatively, in many formulations, CLAYTONE-PI can be post-added under high shear.



Additive Guide



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