

CLOISITE-Na+

Refined bentonite for use as a flame retardant and to improve oil and grease resistance in paper coatings.

Product data

Composition

Premium phyllosilicate

Typical properties

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

Bulk density: 500-1100 kg/m³
Delivery form: powder

Storage and transportation

Product shelf life in unopened original packaging: 60 months
To be stored and transported between -30 °C and 50 °C.

Applications

Paper coatings

Special features and benefits

- Improves oil and grease resistance of several aqueous binders
- In certain formulations can lower the oxygen transmission rate of coatings
- High thermal stability assists in providing physical resistance to heat and flames

Recommended use

CLOISITE-Na+ is suitable for aqueous paper coating formulations. It is compatible with a range of binders, with best results demonstrated with PVOH. Significant improvement in grease resistance of acrylic styrene binders has also been observed.

Recommended levels

0.5-50 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

To ensure optimal distribution, effectiveness, and reproducibility, CLOISITE-Na+ must be added to water (20 °C ± 5 °C) slowly while stirring, and pre-dispersed at high shear forces for at least 20 minutes. For optimal incorporation, the concentration of the additive in this pre-mix should not exceed 10 %. CLOISITE-Na+ should be fully hydrated before adding the remaining water and formulation components to the dispersion. No wetting and dispersing additives are required to produce this dispersion.

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