

AFCONA-4203



Chemical Composition

Modified polyester polymer.

Product general description

High molecular weight polymeric dispersant for de-flocculation of all types of pigments.

Product properties

AFCONA-4203 is a high-efficiency, high-molecular-weight dispersant specially designed by AFCONA. It incorporates AFCONA's latest steric hindrance long-chain structure and newly designed anchoring groups, providing excellent wetting and dispersing performance for inorganic and organic pigments, as well as carbon black. AFCONA-4203 also reduces the viscosity of high-pigment-content pastes and has better stability for concentrates during long-term storage. Due to its solvent-free design, it is suitable for low VOC formulation.

The properties of AFCONA-4203 are as below:

- 1) AFCONA-4203 has wide compatibility in common resin systems such as PU, epoxy, polyester/melamine, thermosetting acrylic/melamine, alkyd/melamine, acid curing, NC and UV.
- 2) AFCONA-4203 is suitable for producing pastes of all carbon blacks and provides efficient viscosity reduction.
- 3) AFCONA-4203 is suitable for high-solid, solvent-free systems and printing inks because of its solvent-free design.

Note: AFCONA-4203 may be cloudy and crystallized when stored below 0°C. It returns to the standard appearance after heating. This will not influence the performance.

Product Specification

Non-volatile matter	≥95% (150°C, 0.5h)
Density	1.085 - 1.125 g/cm ³ (20°C)
Refractive index	1.475 - 1.485 (25°C)
Acid value	2 - 6 mg KOH/g
Amine value	8 - 12 mg KOH/g
Flash point	>100°C
Appearance	Transparent, brownish viscous liquid (25°C)

Addition and dosage

Calculation method for the required amount of active ingredient on pigment:

TiO ₂ :	2 - 3%
Other inorganic pigments :	5 - 10%
Organic pigments :	20 - 40%
Carbon blacks :	30 - 80%

Incorporation

AFCONA-4203 should be incorporated in the mill base before adding the pigments.

Storage

AFCONA-4203 shall be stored in cool and dry place away from direct sunlight. Shelf-life is 5 years from the date of manufacturer, if kept in original and unopened container. The expiring date is indicated on the package.

Packaging

30kg and 220kg non-returnable containers

For product safety information: please refer to the product SDS.