

AFCONA – 4203



Chemical Composition

Modified polyester polymer

Product general description

High molecular weight polymeric dispersant for all type of pigments.

Product properties

AFCONA-4203 is a result of an innovative concept of polyester dispersants which designed by AFCONA. It is based on the latest structure of steric hindrance and new designed anchoring groups. Excellent wetting and dispersing performance to Inorganic, organic and carbon black. AFCONA-4203 also can reduce the viscosity of high pigment content paste, and has better stability of concentrates for long time storage. It is very suitable for low VOC formulation design based on its solvent-free design.

The properties of AFCONA-4203 as below:

- AFCONA-4203 has widely compatibility in common resin systems such as PU, Epoxy, polyester/Melamine, thermosetting acrylic/melamine, alkyd/melamine, acid curing, NC and UV.
- AFCONA-4203 is suitable for producing pastes of all carbon blacks, and it has efficiently viscosity reduction of the pastes.
- AFCONA-4203 is very suitable for high full-fill, solvent-free systems and printing inks because of its solvent-free design.

Note: AFCONA – 4203 will be cloudy and crystallized at temperatures below 0° C. Heat up until homogeneous. This will not influence the performance.

Product Specification

Non-volatile matter	≥95%(150°C,0.5h)
The refractive index	1,475-1,485(25°C)
Density	1,085-1,125 g/cm ³ (20°C)
Amine value	8 - 12 mg KOH/g
Acid value	2 - 6 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 black :	30 - 80%

Incorporation

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

Storage

AFCONA – 4203 should be stored in a cool and dry place. When kept in an original unopened container, it will keep up for 5 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

30kg and 220 kg non-returnable containers