

AFCONA-5281



Chemical Composition

Oligomeric surfactant

Product general description

Fatty acid modified multi-surfactant low polymer.
Used for universal concentrates and improves pigment development.

Product Properties

AFCONA-5281 is environment friendly and VOC free. It acts as special functional dispersing agent for grinding universal concentrates in water-based or solvent-based resins. It can also be used as a post-dispersant to adjust the stability of multi-pigmented systems. It can also cooperate with other high molecular weight dispersants from AFCONA, such as AFCONA-4071(PU), AFCONA-4701(PA, CRP technology) and AFCONA-4560(PA), to obtain combined properties.

The characteristics and recommended systems for AFCONA-5281 are as follows:

- 1) AFCONA-5281 is solvent-free, water-soluble, and can be used to prepare water-based universal concentrates.
- 2) AFCONA-5281, together with AFCONA-4560 and AFCONA-4595, can be used to prepare water-based universal concentrates, which can be used in water-based industrial coatings and architecture coatings.
- 3) AFCONA-5281 can be applied in all kinds of solvent-based systems as a dispersing agent. The advantages will be more outstanding where compatibility is not so good, such as TPA and CAB systems, etc.
- 4) AFCONA-5281 can be used with other solvent-based dispersants as a secondary dispersing agent to achieve better color development, transparency, and low viscosity, or to prevent color separation and floating.
- 5) AFCONA-5281 can be used to prepare resin-free color masterbatches with good versatility.

Note: AFCONA-5281 may crystallize when stored at or below 15°C. Warming it up and mix thoroughly prior to use. That does not affect its quality.

Product Specification

Non-volatile matter	≥98% (150°C, 0.5h)
Density	1.03 - 1.07 g/cm ³ (20°C)
Acid value	20 - 30 mg KOH/g
Amine value	20 - 30 mg KOH/g
Gardner color	Max.5
Appearance	Yellow to brownish with slightly hazy liquid (25°C)

Addition and dosage

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

Universal colorants:

Inorganic pigments :5 - 10%

Organic pigments :10 - 50%

It is required to determine the addition through tests for pigments that are hard to dispersed and stabilized pigments such as organic pigments, carbon black, transparent iron oxide.

When cooperate with other high molecular weight dispersants, the suggested ratio may be 1:1 - 1:4, and tests are required to achieve an optimal ratio.

Incorporation

AFCONA-5281 can be incorporated before grinding or post-added as an additive to improve color masterbatch acceptance and color development.

Storage

AFCONA-5281 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 210kg non-returnable containers

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

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.