

AFCONA - 5281



Chemical Composition

Low molecular weight polymer with pigment affinity groups.

Product general description

Fatty acid modified multi-surfactant low polymer. Prepare for universal concentrate and improve the development of pigment. Meanwhile, improve the acceptance of color master batch with system. It can be used in water-born and solvent based systems.

Product Properties:

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

The advantages and recommended applications of AFCONA-5281 as below:

- 1) Solvent free of AFCONA-5281, water soluble, and can prepare water-born universal concentrate.
- 2) AFCONA-5281 together with AFCONA-4560, AFCONA-4595 to prepare water-born universal concentrate, 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 dispersing agent. The advantages will be more outstanding where compatibility is not so good, such as TPA and CAB systems, and etc.
- 4) It can be used with other solvent based dispersants as a second dispersing agent, to get better color development, transparency, low viscosity, or prevent color separation and floating.
- 5) AFCONA-5281 can be used to prepare color master batch without resin. And it has good versatility.

Note: AFCONA-5281 would be crystalized at 15°C or below. Heat up and well-mixed before use, and this will not influence its performance.

Product Specification

Non-volatile matter	≥98%(150°C,0.5h)
Density	1,03 – 1,07 g/cm ³ (20°C)
Amine Value	20 – 30 mgKOH/g
Acid Value	20 – 30 mgKOH/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%

The addition for hard to be dispersed and stabilized pigments(carbon blacks, transparent iron dioxide) needs to be adjusted by experiment with high molecular weight dispersants, and suggest the ration 1:1-1:4.

Incorporation

AFCONA-5281 can be incorporated in the mill-base or used as post additive for color acceptance.

Storage

AFCONA-5281 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

30kg and 210 kg non-returnable containers

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.