

AFCONA – 5071



Chemical Composition

Alkylol ammonium salt of a high-molecular weight carboxylic acid

Product general description

Anionic wetting and dispersing additive to prevent settling and flooding of pigments

Product Properties

AFCONA-5071 helps to prevent interfacial tension between the hydrophilic pigments/extenders and the binders and stabilized the pigments through electrical charge repulsion forces.

AFCONA – 5071 has below special properties and recommended in below systems:

- 1) The main reason for using AFCONA- 5071 in the formulation is anti-settling and anti-sagging properties.
- 2) It mainly used for inorganic pigments and extenders in water- based coatings. AFCONA-5071 also is suitable for solvent-based coatings, where AFCONA-5071 is selected due to the good anti-settling performance.
- 3) Compared to other type of anti-settling agents, it also gives wetting and dispersing properties and will not influence or reduce the gloss of the system.
- 4) AFCONA-5071 is suitable for use in low to high-polar solvent systems as well as water-based coatings. Can be used to reduce flooding and settling in non-polar systems e.g. air drying alkyd paints.
- 5) Combination of AFCONA-5071 and AFCONA-4560 is very effective to disperse inorganic pigments and fillers, where this dispersion leave standing in very dilute viscosity, such as F#4 cup at 8 – 12 second, for many hours without stirring. Soft settling will form but will not have separation (depending on the particles size of the filler, more than 15µm may have separation) as well as hard settling. The ratio between them is 3:1 (AFCONA-4560 : AFCONA-5071).

Note: AFCONA – 5071 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

Product specification

Active ingredients	50 - 54%
Solvent	Water
Density at 20 °C	1.08 - 1.10 g/cm ³
Acid value	90 – 110 mg KOH/g
Amine value	95 – 130 mg KOH/g
Flashpoint	110°C
Appearance	transparent yellowish to brownish liquid

Addition and dosage

0.5 - 2% based on inorganic pigments
2.5 - 5% based on organic pigments

Incorporation

AFCONA-5071 should be added prior to the dispersion process

Storage

AFCONA-5071 should be stored in a cool dry place and protected against frost. When kept in an original unopened container, it will keep up to 3 years from the date of manufacture. The expiry date is indicated on the container.

Packaging

25 kg and 180 kg non-returnable containers