

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 solventbased 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 waterbased coatings. It 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

Non-volatile matter	50 - 54% (150°C,0.5h)
Solvent	Water
Density	1.08 – 1.10 g/cm ³ (20°C)
Amine Value	95 - 130 mgKOH/g
Acid Value	90 - 110 mgKOH/g
Flash point	>100°C
Appearance	Transparent, yellow to brownish liquid (25°C)

Addition and dosage

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

Incorporation

AFCONA- 5071 is recommended to be incorporated prior to the dispersion process.

Storage

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

Packaging

30kg and 210kg non-returnable containers

AFCONA ADDITIVES

Web Site : www.afcona.com

This information and all further technical advice are based on our present knowledge and experience. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used. We reserve the right to make any changes according to science and technological progress or further developments.

This version replaces all previous ones.