



# AFCONA-4063

## Chemical Composition

Modified polyurethane polymer.

## Product general description

A high molecular weight polymeric dispersant for de-flocculation of all types of pigments.

## Product Properties

AFCONA-4063 is an effective polymeric dispersant for stabilizing inorganic and organic pigments as well as carbon black. Through effective steric hindrance, it provides very good stability for all types of pigments, especially for organic red, yellow and violet pigments.

AFCONA-4063 offers the following advantages:

- Improved gloss and DOI, reduced haziness
- Prevention of floating problems
- Higher colour strength
- Lower viscosity
- Improved blackness of high-grade channel carbon black

The characteristics and recommended systems for AFCONA-4063 are as follows:

- 1) AFCONA-4063 has very good viscosity reduction, especially in carbon black.
- 2) AFCONA-4063 is used in all types of industrial paints for all pigments. It is mainly used in polyurethane, epoxy, nitrocellulose and general industrial baking paints.
- 3) AFCONA-4063 also can be used as a dispersant in preparation of universal pigment concentrates. We recommend combining it with the universal resin AFCONA-1102.

Note: AFCONA-4063 may become hazy when stored at or below 5°C. Heat until uniform before use. That will not influence the performance.

## Product Specification

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| Non-volatile matter | 44 - 46% (150°C,0.5h)                                             |
| Solvent             | Xylene/Butyl Acetate/<br>Propylene glycol methyl<br>ether acetate |
| Amine Value         | 5 - 15 mg KOH/g                                                   |
| Gardner color       | Max.6                                                             |
| Flash point         | 39°C                                                              |
| Appearance          | Clear, pale yellowish/<br>slightly hazy liquid (25°C)             |

## Addition and dosage

Calculation method for the required amount of non-volatile matter on pigment:

|                            |        |
|----------------------------|--------|
| TiO <sub>2</sub> :         | 2-3%   |
| Other inorganic pigments : | 2-4%   |
| Organic pigments :         | 20-40% |
| Carbon blacks :            | 20-60% |

## Incorporation

AFCONA-4063 should be incorporated in the mill base before adding the pigments.

## Storage

AFCONA-4063 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

25kg and 190kg non-returnable containers

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

AFCONA ADDITIVES

Web Site : [www.afcona.com](http://www.afcona.com)

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This version replaces all previous ones.