

# AFCONA - 4531



## Chemical Composition

Modified polyacrylic polymer.

## Product general description

High molecular weight, mainly for water based but also possible to be used in solvent based paint.

## Product Properties:

AFCONA-4531 is a polymeric dispersant for stabilizing inorganic and organic pigments in water and solvent based systems. Through effective steric hindrance and electrostatic repulsion an excellent stability performance on all type of pigments is given.

### For Solvent based

AFCONA-4531 is a polar polymer where it gives very good compatibility to difficult polar systems such as NC, wash primer, etc. Pigment paste that based on AFCONA – 4531 gives very easy incorporation property.

### For Water based

AFCONA – 4531 should be pre-neutralized before it can be completely soluble in water. Before adding to the mill base, AFCONA - 4531 should be neutralized up to pH 8.5 - 9.0 and complete water-solubility will be obtained by e.g. addition of 8.5% AMP 95.

AFCONA-4531 not recommended for manufacturing of resin free pigment concentrate.

Note: AFCONA – 4531 will become slightly hazy at temperatures below 5° C. This will not influence the quality.

## Product Specification

Non-volatile matter	48 -52% (150°C,0.5h)
Solvent	Methoxypropanol
Density	0.96 – 1.00 g/cm <sup>3</sup> (20°C)
Amine value	20 – 30 mg KOH/g
Acid value	30 - 40 mg KOH/g
Flash point	35°C
Gardner color	Max.6

## Addition and dosage

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

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

## Incorporation

AFCONA-4531 should be incorporated in the mill base before adding the pigments.

## Storage

AFCONA-4531 should be stored in a cool dry place. 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

25kg and 190 kg non-returnable containers

AFCONA ADDITIVES

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