

# AFCONA - 5011



## Chemical Composition

Solution of an acidic phosphorous co-polymer.

## Product general description

Anionic wetting and dispersing additive for inorganic pigments, mainly for TiO<sub>2</sub> and extenders.

## Product Properties:

AFCONA-5011 helps to wet and disperse inorganic pigments, mainly TiO<sub>2</sub>, and extenders. AFCONA – 5011 is specially designed as effective dispersant for TiO<sub>2</sub>. Therefore, recommended for pure white systems.

AFCONA – 5011 has below special properties and recommended in below systems:

- 1) AFCONA – 5011 is tailor made as effective dispersant for TiO<sub>2</sub> and extenders.
- 2) It has very good viscosity decrease properties. In high extender loaded systems, like UPE in artificial marble, AFCONA 5011 gives very strong viscosity decrease to allow higher filler loading.
- 3) AFCONA-5011 is particularly suitable for the following coating systems:
  - automotive (OEM and refinish)
  - general industrial
  - coil coating
  - acid curing
  - UV curing
- 4) In electrostatic spraying system for pure white paint, AFCONA – 5011 gives the highest gloss performance.

AFCONA-5011 could have a catalyzing effect on the reaction in stoving enamels. This may lead to viscosity increase during storage.

Note: AFCONA – 5011 will become slightly hazy and crystallization at temperatures below 2° C. heat up to uniformly, this will not influence the quality.

## Product Specification

Non-volatile matter	50 - 54% (120°C,0.5h)
Solvent	PMA/Alkylbenzene /Sec-butanol
Density	0.99 – 1.03 g/cm <sup>3</sup> (20°C)
Acid Value	48 - 58 mg KOH/g
Flash point	38°C
Appearance	Transparent, yellow liquid (25°C)

## Addition and dosage

2.0 - 4.0% based on TiO<sub>2</sub> or extenders

5.0 - 10.0% based on other inorganic pigments

## Incorporation

AFCONA-5011 should be added prior to the dispersion process.

## Storage

AFCONA-5011 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

25kg and 200 kg non-returnable containers

AFCONA ADDITIVES

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

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This version replaces all previous ones.