

# AFCONA-5220



## Chemical Composition

Polyester-modified polyphosphate ester compound

## Product general description

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

## Product Properties

AFCONA-5220 is an upgraded version of AFCONA-5210. Due to its specially designed molecular structure, it does not experience crystallization issues during low-temperature storage while exhibiting excellent wetting capability for inorganic pigments.

AFCONA-5220 is a high-efficiency dispersant designed specifically for dispersing TiO<sub>2</sub> and fillers, offering good viscosity reduction properties. In high filler content systems such as unsaturated polyester artificial marble, it provides excellent viscosity reduction to allow higher filler loading while helping to shorten the dispersion process.

AFCONA-5220 is highly recommended for use in pure white coating systems. In electrostatic spray painting systems for pure white coatings, it also delivers the highest gloss performance. If the white mill-base needs to be tinted with other colors, it is recommended to use AFCONA-4010 to prepare the white pigment paste.

When used in amino baking paints, AFCONA-5220 also exhibits a catalytic effect, which may lead to a slow increase in coating viscosity during storage.

AFCONA-5220 is recommended for:

- 1) Automotive paint (OEM and refinish)
- 2) General industrial coatings
- 3) Coil coatings
- 4) Acid-curing coatings
- 5) Unsaturated polyester coatings
- 6) Epoxy coatings
- 7) Polyurethane coatings

Note: AFCONA-5220 may become slightly hazy at temperature below 5°C. Even at -15°C the slight haziness stay the same. This will not influence the quality.

## Product Specification

Non-volatile matter	≥92% (120°C, 0.5h)
Density	1.12 - 1.16g/cm <sup>3</sup> (20°C)
Acid Value	80 - 100 mg KOH/g
Gardner Color	Max.6
Flash point	>100°C
Appearance	Clear, pale yellow, slightly hazy liquid (25°C)

## Addition and dosage

1.0-3.0% based on TiO<sub>2</sub> or extenders  
5.0-10.0% based on other inorganic pigments.

## Incorporation

AFCONA-5220 should be added to the base material and mixed thoroughly before dispersion of the pigment paste.

## Storage

AFCONA-5220 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

30kg and 210kg non-returnable containers

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