

AFCONA-5211



Chemical Composition

Modified phosphate ester co-polymer.

Product general description

An ionic wetting and dispersing agent for inorganic pigments, mainly for TiO₂, and extenders.

Product properties

AFCONA-5211 is used to wet and disperse inorganic pigments, mainly TiO₂ and extenders, and decrease the viscosity of pastes. AFCONA-5211 is recommended for preparation of pure white paint systems.

The characteristics and recommended systems for AFCONA-5211 are as follows:

- 1) AFCONA-5211 is a wetting and dispersing agent, specially designed to disperse TiO₂ and extenders.
- 2) AFCONA-5211 has excellent performance for viscosity decreasing. It can provide excellent viscosity decreasing property in high PVC systems. Meanwhile, it also has the property of anti-sinking.
- 3) AFCONA-5211 is 100% solid content and solvent-free. It can be used in formulations where VOC is limited.
- 4) AFCONA-5211 is suitable for the following coating systems:
 - Automotive coatings(OEM and refinish);
 - General industrial paints;
 - Coil paints;
 - Flooring paints;
 - UV curing paints;

The high acid value of AFCONA-5211 would cause the cross-linking of acid-catalyzed baking paint systems. It would increase the viscosity of paint during storage.

Note: AFCONA-5211 may become hazy when stored at below 2°C. Heat it up at around 40°C and mix thoroughly before use. That will not affect the product quality.

Product Specification

Non-volatile matter	≥96% (120°C, 0.5h)
Density	1.10 - 1.14 g/cm ³ (20°C)
Acid value	90 - 120 mg KOH/g
Gardner color	Max.5
Flash point	>100°C
Appearance	Yellowish viscous liquid (25°C)

Addition and dosage

- 2 - 5% based on TiO₂ or extenders
- 3 - 10% based on inorganic pigments

Incorporation

AFCONA-5211 should be added during the dispersion. Shear force must be applied to ensure homogeneous mixing with the base resin.

Storage

AFCONA-5211 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.

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.