

AFCONA-5251



Chemical Composition

Surfactant-modified phosphate polymer.

Product general description

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

Product properties

AFCONA-5251 helps wet and disperse inorganic pigments, mainly transparent iron oxide, TiO₂, and fillers. It is specifically designed to improve the transparency of transparent iron oxide and can also be used in various highly filled solvent-based resin systems or composite resins. Compared to previous commercially available products, AFCONA-5251 offers better low-temperature stability.

The characteristics and recommended systems for AFCONA-5251 are as follows:

- 1) AFCONA-5251 provides excellent viscosity reduction, performing particularly well in high filler content systems. The transparent iron oxide mill base prepared with it can stably achieve pigment concentrations of up to 40%.
- 2) The solvent-free version of AFCONA-5251 is also suitable for high-solids systems or systems where solvent usage is restricted.
- 3) AFCONA-5251 is especially suitable for the following coating systems:
 - Automotive paints (OEM and refinish)
 - General industrial paints
 - Coil coatings
 - Epoxy coatings
 - Unsaturated polyesters

AFCONA-5251 could have a catalyzing effect on the reaction in stoving enamels. This may lead to viscosity increase during storage.

Note: AFCONA-5251 may become slightly hazy when stored at or below 5°C. This will not affect the quality.

Product Specification

| | |
|---------------------|--|
| Non-volatile matter | ≥98% (120°C, 0.5h) |
| Density | 1.08 - 1.12 g/cm ³ (20°C) |
| Acid value | 105 - 115 mg KOH/g |
| Gardner color | Max.9 |
| Appearance | Clear, yellow to brownish liquid(25°C) |

Addition and dosage

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

| | |
|--------------------------|------------|
| Transparent iron Oxides | : 10 - 20% |
| TiO ₂ | : 2 - 3% |
| Other inorganic pigments | : 2 - 4% |

Incorporation

AFCONA-5251 should be added during the dispersion process.

Storage

AFCONA-5251 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 220kg 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.