

AFCONA - 5281



Chemical Composition

High molecular weight block copolymer with pigment affinity groups.

Product general description

Solvent-free wetting and dispersing additive for solvent based industrial coatings.

Product Properties:

AFCONA - 5281 is an effective dispersing agent for organic and carbon black pigments. Due to its high solid content, it is also suitable for low VOC coating. It can be used as sole dispersant in pigment concentrate preparation or used as post added additive to achieve better pigments stability. AFCONA - 5281 can be combined with our other high molecular weight dispersants, such as AFCONA 4071 or AFCONA 4701 to achieve good dispersing systems for better cost or a better compatible pigment paste.

The advantages of AFCONA - 5281 in solvent based coating are as follows:

- 1) Lower grinding viscosity.
- 2) Better compatibility especially in difficult resin systems such as NC, CAB and other difficult resin systems.
- 3) Practically suitable for all resin systems.
- 4) Good pigment stability upon storage.
AFCONA - 5281 is not designed for high loading of inorganic pigments and fillers as the mill based viscosity will be high. It can be used for inorganic pigment and fillers if the loading is low in mill based.

Note: AFCONA-5281 would be crystallized at 10 or below. Heat up and well-mixed before use, and this will not influence its performance.

Product Specification

Non-volatile matter	≥98%(150°C,0.5h)
Density	1,03 – 1,07 g/cm ³ (20°C)
Amine Value	20 – 30 mgKOH/g
Acid Value	20 – 30 mgKOH/g
Gardner color	Max.5
Appearance	Yellow to brownish with slightly hazy liquid(25°C)

Addition and dosage

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

Universal colorants:

Inorganic pigments	:5 - 10%
Organic pigments	:10 - 50%

The addition for hard to be dispersed and stabilized pigments(carbon blacks, transparent iron dioxide) needs to be adjusted by experiment with high molecular weight dispersants, and suggest the ratio 1:1-1:4.

Incorporation

AFCONA-5281 can be incorporated in the mill-base or used as post additive for color acceptance.

Storage

AFCONA-5281 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

30kg and 210 kg non-returnable containers

AFCONA ADDITIVES

Web Site : www.afcona.com

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This version replaces all previous ones.