

NUOSPERSE® FN 265

Pigment Wetting and Dispersing Agent

GENERAL INFORMATION

NUOSPERSE FN 265 is an alkylphenol-free, nonionic wetting agent and emulsifier.

CHEMICAL & PHYSICAL PROPERTIES

Appearance, 20 °C	clear/slightly hazy liquid
Active Solids	approx. 90%
pH, 1% solution in water (ASTM D 1172):	5.0 - 7.0
Density, 20 °C (ISO 2811-2)	approx. 1015 kg/m ³
Viscosity, 20 °C (ASTM D 2196)	approx. 300 mPa.s
Colour (DIN-EN 1557)	max. 5 Gardner
Flash point (ASTM D 92)	> 100 °C

These are typical properties not to be used for specification purposes.

APPLICATIONS

- **NUOSPERSE FN 265** is a unique non-ionic, amphiphilic wetting agent and emulsifier designed to replace traditionally used alkyl phenol ethoxylates.
- Alkyl phenol ethoxylates (APEs) are widely used in the paint industry as pigment wetting agents, emulsifiers and stabilisers.
- Questions have been raised regarding the aquatic toxicity of APEs. The environmental safety of APEs is in serious doubt. Potentially, this could lead to adverse classification and labelling of APEs as well as APE- containing products. Many companies have already chosen to discontinue using these products where possible.
- **NUOSPERSE FN 265** can be used as an effective replacement for the most widely used APE in paints, namely nonyl phenol ethoxylate, NP-10E.
- **NUOSPERSE FN 265** is an excellent candidate to substitute NP-10E in paints, pigment dispersions and most emulsions and dispersions.
- Based on our findings **NUOSPERSE FN 265**

shows similar pigment wetting and stabilising properties to NP-10E.

- **NUOSPERSE FN 265** contains only water as its volatile component and therefore may be classified as a VOC compliant compound.

KEY PROPERTIES

Feature	Consequence
• Alkylphenol-free	- replacement for APE
• Amphiphilic structure	- consistent paint quality - emulsifying properties - pigment wetting agent - avoids flocculation
• Destabilises foam	- reduced defoamer demand

INCORPORATION

It is recommended to start by replacing NP-10E on a one to one basis with **NUOSPERSE FN 265** (as supplied).

However, the optimum dosage, compatibility and performance should be checked in each case individually.

LEVELS OF USE

Typically, 0.1 to 0.6% would be used in coatings formulations whereas 2 to 15% would be required as a vehicle for a pigment concentrate.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

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STORAGE RECOMMENDATIONS

Keep containers tightly closed in a cool, well-ventilated room. It is recommended to store **NUOSPERSE FN 265** above 4°C as it might solidify at lower temperatures. If this occurs, **NUOSPERSE FN 265** can be returned to a clear, fully active liquid again simply by storing at room temperature.

NUOSPERSE FN 265 is a dispersion of 90% active material in water to ensure easy handling. In some cases, the product might develop a haziness during storage or appear to separate slightly into layers. This is normal behaviour and will not affect its performance. If it is observed, we recommend thorough mixing before use, preferably at 35°C.

SHELF LIFE

NUOSPERSE FN 265 has a shelf life of 3 (three) years from date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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