

## NUOSPERSE® FA 162

### Wetting and Dispersing Agent

#### GENERAL INFORMATION

**NUOSPERSE FA 162** is an aliphatic alcohol ethoxylated phosphate ester wetting and dispersing agent for pigments in plasticizer and universal tinting aids. It is an alternative for alkylphenol ethoxylated phosphate ester wetting and dispersing agents.

#### CHEMICAL & PHYSICAL PROPERTIES

Appearance 20°C	turbid liquid
Active content	99-100 %
Density, 20 °C (ISO 2811-2)	approx. 1055 kg/m <sup>3</sup>
Viscosity, 25 °C (ASTM D 2196)	0 - 500 mPa.s
Acid value	87 - 96 mg KOH/g
Water content	max 1% (m/m)
Pour point	10 - 13°C

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

#### APPLICATIONS

**NUOSPERSE FA 162** is highly suitable to use as wetting agent and dispersion agent.

**NUOSPERSE FA 162** lowers the viscosity of the pigment paste, allowing a possible increase of the pigment content. The effectiveness of

**NUOSPERSE FA 162** is particularly evident with the dispersion of pigment types with a larger specific surface such as Carbon black.

**NUOSPERSE FA 162** can also be used as emulsifier in various applications such as emulsion polymerization and personal care.

#### KEY PROPERTIES

Feature	Consequence
<ul style="list-style-type: none"> <li>Strongly adsorbed onto pigment surfaces</li> </ul>	<ul style="list-style-type: none"> <li>optimal colour development</li> <li>consistent quality</li> <li>increases pigment loading</li> </ul>
<ul style="list-style-type: none"> <li>Phosphate ester functionality</li> </ul>	<ul style="list-style-type: none"> <li>corrosion inhibition</li> </ul>
<ul style="list-style-type: none"> <li>Solvent-free</li> </ul>	<ul style="list-style-type: none"> <li>may be used in NO-VOC systems</li> </ul>

#### INCORPORATION

**NUOSPERSE FA 162** should be mixed with the plasticizer before the pigment is added.

#### LEVELS OF USE

Dosage: 1 – 3% calculated on the total quantity of universal tinting aids. It is recommended to ascertain the actual optimum concentration of **NUOSPERSE FA 162** by means of a ladder trials

#### 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.

#### STORAGE RECOMMENDATIONS

Keep containers tightly closed in a well-ventilated room. It is recommended to store **NUOSPERSE FA 162** above 15°C as it might solidify at temperatures below its pour point. If this occurs, **NUOSPERSE FA 162** can be returned to a fully active liquid again by storing at room temperature. Solidification and liquidification again does not have an influence on the quality of the product.

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### SHELF LIFE

**NUOSPERSE FA 162** has a shelf life of 2 (two) 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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