

NUOSPERSE® 757

Pigment Dispersing Agent

GENERAL INFORMATION

NUOSPERSE 757 is a modified alkyd resin pigment wetting and dispersing agent which can be applied to practically all non-aqueous paint systems. The product can also be applied in the dispersion of pigments into plasticizers for PVC systems.

NUOSPERSE 757 contains a very low content of cyclic aromatic hydrocarbons.

CHEMICAL & PHYSICAL PROPERTIES

Appearance	slightly hazy liquid
Active content	70 - 75%
pH	neutral
Density, 20°C (ISO 2811-2)	approx. 950 kg/m ³
Viscosity, 23°C (ASTM D 2196)	200 - 1200 mPa.s
Colour (DIN-EN 1557)	max. 12 Gardner
Solubility	soluble in most organic solvents
Flash point (ASTM D 65)	> 40°C

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

APPLICATIONS

NUOSPERSE 757 can be applied to practically all non-aqueous paint systems, e.g. to air-drying alkyd paints, alkyd-melamine baking enamels, acrylic enamels and industrial primers.

By adding **NUOSPERSE 757** to the pigment paste before the grinding process, a faster wetting of the pigments as well as a better degree of dispersion is obtained. This has the following advantages:

- Shorter grinding time
- Low viscosity of the grinding paste, resulting in a greater capacity
- Improved stability of the paint
- Improved colour strength
- Improved hiding power of the paint

If applied in the right concentrations, **NUOSPERSE 757** will not influence the gloss and adhesion of the paint unfavourably.

The use of **NUOSPERSE 757** in the preparation of pigment pastes for PVC systems offers the following advantages:

- Higher pigment loading of the pigment paste without increased viscosity, or permits lower viscosity and greater fluidity at comparable pigment loading.
- The superior wetting and dispersing properties of **NUOSPERSE 757** permits a finer pigment grind.
- The use of **NUOSPERSE 757** produces an improved colour strength of the pigment to the extent of about 5 - 10%. The greatest degree of improvement is obtained with organic pigments.
- **NUOSPERSE 757** improves the dispersion of the titanium dioxide pigments, providing greater opacity and whiteness which indicates that for equal hiding, the amount of white pigment could be reduced in the vinyl compound and be replaced by less expensive fillers.
- **NUOSPERSE 757** does not alter the heat stability of average vinyl compound.

KEY PROPERTIES

Feature	Consequence
• Amphoteric character	effective for acidic, neutral and basic pigments
• Film forming backbone	provides film cohesion

continued...

NUOSPERSE® 757

INCORPORATION

As a dispersing agent for solvent based coatings, **NUOSPERSE 757** should be applied at a concentration of 0.5 - 2.5% calculated on the pigment paste, and should be added before the grinding process. The best method is to mix **NUOSPERSE 757** together with the quantity of binding agent required for the pigment paste.

For use in PVC systems, **NUOSPERSE 757** should be introduced in the pigment paste at 2.0 - 5.0%, based on the weight of the dry pigment. The exact dosage should be determined experimentally.

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.

SHELF LIFE

NUOSPERSE 757 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.

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

© Copyright 2018, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

Trademark of Elementis Specialties, Inc.

V01 Aug. 2018

North America

Elementis
469 Old Trenton Road
East Windsor
NJ 08512, USA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europe

Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Strasse 370
50933 Cologne, Germany
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Asia

Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
Tel.: +86 21 5774 0348
Fax: +86 21 5774 3563