

NUOSPERSE® FX 610

Pigment Dispersing Agent

GENERAL INFORMATION

NUOSPERSE FX 610 is a highly effective pigment dispersing agent for use primarily in waterborne architectural coatings, pigment pastes, colorants and printing inks. The product is a liquid, multi-functional polymer and is VOC-free.

CHEMICAL & PHYSICAL PROPERTIES

Appearance 20 °C	clear or slightly hazy liquid
Active content	ca. 25 %
Density, 20 °C (ISO 2811-2)	ca. 1078 kg/m ³
Viscosity, 20 °C (ASTM D 2196)	<100 mPa.s
pH (ASTM D 1172)	8.5 - 10.0
Colour	colourless to light yellow

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

APPLICATIONS

- **NUOSPERSE FX 610** is suitable for use with a wide variety of binders for decorative as well as industrial applications. It is also the product of choice for waterborne alkyd formulations.
- **NUOSPERSE FX 610** can be used in pigment concentrates for tinting paints, leather finishes, textiles, plastics, inks, and other similar coatings systems.

KEY PROPERTIES

- The multi-functional structure of **NUOSPERSE FX 610** ensures strong interaction with a wide range of pigments. **NUOSPERSE FX 610** dispersant is not only efficiently adsorbed onto inorganic pigments such as titanium dioxide and iron oxides (yellow, red or black) but also onto organic pigments such as fast red, quinoid magenta, phthalo blue and phthalo green. Further, it is very effective with carbon black and extenders. The strong interaction and the unique polymer structure of **NUOSPERSE FX 610** result in optimised stabilisation of pigments in aqueous systems.

- **NUOSPERSE FX 610** dispersant can also be used together with a suitable wetting agent such as the **NUOSPERSE FN 265** if required.
- The main features of **NUOSPERSE FX 610** are:

Feature	Consequence
No VOC	- can be used in VOC-compliant coatings
Optimised stabilisation against pigment flocculation	- high gloss levels - optimal opacity - consistent quality
Improved pigment wetting	- shorter grinding times - energy savings - reduced pigment costs
Strongly adsorbed onto pigment surface	- optimises stability - optimal opacity
Excellent compatibility with a wide range of binders	- high gloss levels - improved film appearance - high water resistance

INCORPORATION

For maximum efficiency, **NUOSPERSE FX 610** is added prior to the grinding stage. The ideal procedure is to incorporate **NUOSPERSE FX 610** in the aqueous medium before the addition of the pigments and extenders.

LEVELS OF USE

We recommend the following dosage of **NUOSPERSE FX 610** as a starting point:

as a dispersant/vehicle in pigment concentrates: 1 to 10 % on total weight of the pigment concentrate.

as a pigment dispersant in paint: 0.5 % to 2.0 % on total formulation.

as a pigment dispersant in printing inks: 0.5 to 3.0% on total formulation.

As the composition and production procedures of coatings vary enormously, it is recommended to check applicability in each case individually.

continued...

NUOSPERSE® FX 610

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

Store away from excessive heat or open flame. Keep container closed when not in use.

SHELF LIFE

NUOSPERSE FX 610 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