Technical Data Sheet

Release Date: Jun, 2026, NO.: REZUX-DSP-20260605-01E

Enfinol® DSP23

Version: 1

Performance Overview

- Enfinol® DSP23 can be used in both solvent-based and solvent-free coatings as well as printing inks; it serves as a stable solvent-free wetting and dispersing agent for inorganic pigments, particularly for titanium dioxide, its chemical composition is phosphate ester.

Product Features

- Stabilizes pigment deflocculation through steric hindrance effects.
- Improve high gloss and enhances color strength.
- Improves the transparency of transparent pigments and the hiding ability of opaque pigments.
- Reduces the viscosity, improves flowing, and increases pigment concentration.
- During electrostatic cup spraying, the spray shadow is significantly reduced.

Physical Property

Product Technical Specifications

Appearance（25℃）	Light yellow liquid
Acid value（mg KOH/g）	129
Density（20℃，g/cm^3）	1.16

Application

- Uses for both solvent-based and solvent-free coatings as well as printing inks to stabilize inorganic pigments, particularly for titanium dioxide.
- Its anionic properties make it highly suitable for acid-catalytic systems (e.g., coil coatings).

Use Method

- To achieve optimal performance, the additive must first be added into the grind stage before the pigment adding.
- The dosage of additives (based on purchase mode) is as follows:

  Inorganic pigments: 2.5 – 5%;

  Titanium dioxide: 1 – 3%.

  The recommended addition amounts are for reference only; the optimal dosage should be determined through a series of experiments.

Packaging & Storage

- 20kg、200kg & 1000 kg/Barrel
- Well mix before use. Stratification or turbidity may occur, heat to 30~40℃ and stir well.
- Due to its high acid value, this additive may accelerate cross-linking in the paint system. During storage, the changes in the viscosity of the coating system should be monitored.
- Shelf life---24 months

Service Restrictions

- This product has not been tested nor has it been specifically stated that it is suitable for medical or pharmaceutical use. It may not be used for human injection or consumption

Limited Warranty Information - Please read carefully

- The content of this product data sheet is based on the products owned by my company, and is provided for reference only
- Due to the numerous formulations, production, and application conditions, customers should pre-test the adaptability of my company's products before using them to determine their performance, efficiency, and safety
- The suggestions we provide shall not be considered as a cause of any patent infringement. The sole responsibility of our company is to refund the money or exchange it for a product with same value
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