



Aqueous polymer dispersant

Overview

DW-97 is a novel electrosteric dispersant, specifically designed for the dispersion of difficult-to-disperse organic pigments and medium to high-pigment carbon black. It enables black colorants to exhibit a blue undertone, provides excellent wetting and viscosity reduction, improves dispersion efficiency, increases colorant flowability, prevents floating and flooding, and enhances pigment color development and storage stability. It can disperse most organic pigments with broad applicability.

Physicochemical Properties

| Appearance | Yellow-brown liquid | Composition | Block copolymer |
|------------------|------------------------|-------------|-----------------|
| Solid Content | 50.0 ±3.0% | Solvent | Water/DPM |
| Density | 0.96 g/ml | | |

Properties and Advantages

The latest electrosteric dispersant provides both positive and negative charges, creating repulsion and mutual restraint. Additionally, it uses branched linear long chains to form a three-dimensional barrier between pigments and resin matrices, preventing pigment re-flocculation and improving the flowability of the grinding medium, reducing floating and flooding phenomena.

- APEO-free, environmentally friendly product.
- Grinding resin-free high-pigment carbon black enables black colorants to exhibit a blue undertone with very low viscosity.
- Increases pigment content in the grinding medium, reduces grinding medium viscosity, and enhances flowability.
- Effectively balances dispersion and storage stability.
- After grinding organic pigments, it tends to show high gloss and excellent color development.
- Good compatibility with resins.

Dosage

Inorganic pigments: 1-5% before grinding. Organic pigments: 10-50% before grinding. Carbon black: 20-100% before grinding.

Application

Waterborne organic pigment and carbon black dispersion systems.

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www.new-techem.com

For further detailed information, please contact our company directly.

The information provided is compiled based on our current knowledge and is intended for reference only. No guarantees are made. We reserve the right to modify product parameters within the scope of process advancements or product development. Due to the wide range of processing conditions and raw material combinations beyond our control, users are advised to conduct suitability tests before production.

Revision date: 2024.01.02 Version: 7105 V1 2024

Precautions & Storage

Store in a cool, ventilated place. Keep the container tightly sealed. During winter, take anti-freezing measures (if frozen, thaw and stir before use). Under normal recommended storage conditions, the product has a shelf life

of 2 years.

Safety

Refer to MSDS

Packaging

25 KG/Barrel

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