

Product Specification – Non-Ionic Stabilizing Surfactant and Wetting Agent

ZETASPERSE® 179 Dispersant

Description

ZETASPERSE® 179 Dispersant was designed to provide steric stabilization for the aqueous dispersion of pigments and particles. A non-ionic, high-HLB surfactant, ZETASPERSE® 179 Dispersant can provide performance benefits in the aqueous dispersion of organic, carbon black, and inorganic pigments as well as fillers and functional solid chemicals.

Most effective when used as a secondary dispersant in conjunction with anionic polymeric dispersants and grind resins, ZETASPERSE® 179 Dispersant can provide significant wetting, milling, and steric stabilization benefits, often improving milling efficiency, color development, and dispersion stability to enable formulators to achieve higher performance. ZETASPERSE® 179 Dispersant is similar to ZETASPERSE® 182 dispersant and offers different synergies with formulation components.

Features/Benefits

- Steric stabilization benefits
- Improved dispersion stability
- Lower dispersion viscosities allowing higher pigment loadings
- Increased dispersant efficiency—lower cost-in-use
- Enhanced let-down compatibility and color acceptance
- Contains no added APEs or solvents
- Contributes no VOCs per European and US2 regulations
- Contains no added silicone, silica or fluorinated materials

Applications

- Dispersion and stabilization in aqueous systems
 - – Pigments
 - – Fillers
 - – Other solids
- Dispersion and stabilization of pigments, fillers, and other solids in aqueous systems
- Resinated dispersions
- Colorants and pigment dispersion
- Inks and graphic arts
- Architectural and industrial coatings
- Industrial processes

Recommended usage

Between 1 and 3 % of total formulation weight is recommended.

Shelf life

The shelf life for this product is 24 months from the date of manufacture.

Storage and handling

Keep away from direct sunlight. Keep containers tightly closed in a dry, cool, and well-ventilated place. Product is freeze-thaw stable; however, if it phase separates or freezes, heat to 40 – 60 °C to thoroughly melt and mix well before use.

Please refer to the MSDS for the most current information.

Table 1: Typical Properties¹

Appearance	clear, colorless to pale yellow liqid
Viscosity @ 25 °C (mPa · s)	500 – 1500
Specific Gravity @ 25 °C	1.08
Flash Point (°C)	217
Pout Point (°C)	9
VOC (US EPA Method 24) ²	0

- 1 These are typical properties only and do not represent sales or manufacturing specifications.
- 2 Volatile organic compounds (VOCs), as defined by the EPA in 40 CFR 51.100(s). ZETASPERSE® 179 Dispersant was found to contribute no VOC under EPA Method 24 testing conditions when evaluated at 3.0 wt.% in a zero-VOC coating formulation.

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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