

# Technical Data



## ZetaSperse® 3600 pigment dispersing additive



### Advantages

- Broad utility for organic and carbon black pigments
- Robust performance for globally sourced pigment grades
- Excellent cost-in-use
- Suitable for resin-free and resinated systems
- APE-free

The ZetaSperse 3600 pigment dispersing additive provides a high performance, yet cost-effective solution for the aqueous dispersion of a broad spectrum of organic and carbon black pigment grades. Based on anionic polymer and lower molecular weight grind aid technology, ZetaSperse 3600 dispersant is designed to offer excellent dispersion stability with effective pigment de-aeration, efficient milling, and viscosity control. The synergistic combination of surface active species used in ZetaSperse 3600 dispersant has also been found to offer the robust performance necessary to overcome pigment grade variations found with global sourcing of pigments.

### Introduction

ZetaSperse 3600 dispersant is most suitable for classic organic pigment chemistries, including phthalocyanine and azo pigments, as well as the range of carbon black pigment grades. ZetaSperse 3600 dispersant can also provide dispersancy and performance with inorganic pigments, fillers, and other solids. It is effective when used resin-free as the primary dispersant chemistry or as a grind aid or co-dispersant in resinated dispersions.

ZetaSperse 3600 dispersant is suitable as an APE-free drop-in replacement for the popular Surfynol® CT-131, CT-136 and CT-231 pigment dispersing additives, offering a performance match in most formulations.

## Global registrations

ZetaSperse 3600 is included on the following regulatory lists:

- AICS (Australia)
- DSL (Canada)
- ECL (South Korea)
- EINECS (EU)
- ENCS (Japan)
- PICCS (Philippines)
- SEPA (China)
- TSCA (USA)

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For more information,  
please contact us at:

Table 1: Typical properties

Actives, wt %	52%
Inactives	water
Appearance/form	clear liquid
Color	amber
Pour Point	< -10 °C
Viscosity, 21 °C	500 cps

## Use and dosage

ZetaSperse 3600 dispersant can be used for the aqueous dispersion of all pigment types and can function in resinated and resin-free systems. Dosage will be dependent on pigment surface area and stabilization requirements, but typically will be 2-10% as supplied on inorganic pigments, 10-50% as supplied on organic and carbon black pigments in resin-free aqueous dispersions. With an actives content of 52%, ZetaSperse 3600 dispersant is more concentrated than many typical dispersant solutions that contain 30-40% actives; therefore, when ZetaSperse 3600 dispersant is used as a replacement for more dilute additives, use levels should be adjusted accordingly. In resinated systems, ZetaSperse 3600 dispersant can serve as a co-dispersant and grind aid at use levels of 2-5% on total formulation.



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