



# Flexisperse™ 250

Anionic dispersant polymer

## Overview

- Aqueous anionic polymer dispersant/ deflocculant and rheology modifier
- Non-discoloring dispersing agent for the preparation of high solids aqueous mixtures
- Effectively suspends many types of solids (particulates, pigments, carbon black, abrasives, fillers)
- Produces long-term stable suspensions over a broad range of solids loading levels
- Improves storage stability of aqueous emulsions
- Prevents scale and hard water deposits
- Effectively functions as an anti-redeposition agent

## Applications

- Paints, coatings, resins, and adhesive formulations
- Pottery and ceramic slips
- Dye concentrates
- Paper coatings, fabric & nonwoven finishing and binder applications
- Liquid suspension fertilizers, fertilizer granulation, pesticide suspensions
- Detergent formulations including automatic dishwasher detergents
- Boiler water treatment

## Technical Information

Flexisperse 250 produces stable suspensions and dispersions at higher concentrations with lower viscosities. The addition of small amounts of Flexisperse 250 will allow a significant increase in the concentration of powder, granular and fibrous materials in many aqueous dispersion formulations. The shelf life or working time of dilute suspensions can be lengthened by the addition of small amounts of the dispersant. Time and energy requirements to manufacture stable high solids dispersions can be reduced. Flexisperse 250 provides excellent stability and viscosity control to formulations.

## Formulary

Use at a rate of 0.025-0.05% Flexisperse 250 (as supplied) in low concentration dispersions. Use at a rate of 0.5-1.0% in high concentration dispersions.

## Typical Properties

| PROPERTY         | VALUE                                     |
|------------------|---|
| Appearance       | Clear, colorless to slightly straw liquid |
| Odor             | Mild                                      |
| Ionic character  | Anionic                                   |
| Water solubility | Soluble                                   |
| pH (5% aq.)      | 10.5±1.5                                  |
| Density@25°C     | 1.21±0.02 g/ml                            |
| Boiling Point    | 100°C                                     |
| Flash point      | None (aqueous)                            |
| Storage          | Stable to freezing                        |
| Shelf life       | 12 months                                 |

## Packaging and Handling

Flexisperse 250 is available in:  
Bulk (44,000 lbs)  
275 gallon totes (Net Wt. 2500 lbs)  
55 gallon plastic drums (Net Wt. 500 lbs)  
5 gallon plastic pails (Net Wt. 40 lbs)

Refer to Material Safety Data Sheet (MSDS) for information on the safe use, handling, and disposal of this product.

DOT Classification: Non-Regulated

Whether you're looking for a replacement product or an ingredient for a specific attribute, give us a call. We can provide assistance based upon your particular formulation requirements and composition; please feel free to contact us.

*Please refer to back page for important information*

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### Dispersant mechanism:

Flexisperse 250 adsorbed onto crystals and particles resist agglomeration through electrostatic repulsion, and/or steric hindrance and act to disperse the crystals and particles. Dispersed crystals and particles are less likely to deposit on surfaces, and once in solution, less likely to redeposit. Dispersant action by adsorption increases the negative charge on sludge particles, reduces their tendency to agglomerate, and inhibits scale formation by keeping them suspended.

This information relates only to the specific material referred to herein and not to its use in combination with any other material or in any process, unless explicitly stated herein. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled; however, no warranty, guarantee or other representation is made as to its accuracy, reliability, or completeness, or regarding any liabilities arising from others' intellectual property rights. ID# 20140701