



# Flexisperse™ 300

## Overview

- Aqueous, Partially Neutralized Polyacrylic Acid
- Excellent Antiscaling Properties over a Broad Range of pH, Water Hardness, and Temperature Conditions
- Effective & Stable Dispersant Functionality vs Sodium Phosphates
- Contains No Phosphates Allowing Users to meet Discharge Water Requirements

## Applications

- Industrial Water Treatment as a General Purpose Antiscalant
- Dispersants for a Variety of Inorganic Pigments Including Kaolin Clay, CaCO<sub>3</sub>, TiO<sub>2</sub> and Iron Oxides
- Oilfield Applications for Preventing Scale in Well Formation and Production Equipment

## Technical Information

Flexisperse 300 is a partially neutralized polyacrylate polymer. The molecular weight and molecular weight distribution of Flexisperse 300 has been optimized to deliver optimum functionality across a number of end use applications. Flexisperse 300 allows the end user to receive product at the highest actives while fully conforming to DOT regulations. This polymer is widely used by the water treatment industry as a general purpose antiscalant to control the development of CaCO<sub>3</sub>, CaSO<sub>4</sub>, and other mineral salt scales on heat exchange surfaces of cooling towers and boilers.

Flexisperse 300 also serves as a cost effective and thermally stable dispersant for a variety of inorganic pigments including Kaolin Clay, CaCO<sub>3</sub>, TiO<sub>2</sub>, and Iron Oxides for both processing and shipping of high solids slurries to the marketplace.

In oilfield applications, Flexisperse 300 helps to control scale development in well formations as well as production equipment. The polymer is also a functional dispersant / deflocculation agent for drilling muds in lower temperature and low electrolyte conditions.

For further information, technical service, and samples, please contact us at (770) 607-9340 or via our website at [www.ictchemicals.com](http://www.ictchemicals.com)

## Typical Properties

Appearance	Clear to Slightly Hazy Liquid
Color	Water White to Pale Amber
Chemical Nature	Acrylic homopolymer
Grade	Partial Na salt (20% neutralized)
Average molecular weight (Mw)	2000 -3000
Total solids (%)	47.0 - 49.0
Bulk density (at 25°C)	1.15 - 1.35
pH as is (at 25°C)	3.0 - 4.0
Viscosity Brookfield (mPa.s/cps at 25°C)	100 - 500

## Packaging and Handling

Flexisperse 300 is available in bulk tank trucks (44,000 lbs), 275 gallon totes (approx 2750 lbs) and 55 gallon plastic drums (Net Wt. 550 lbs).

DOT Classification is Non Regulated.

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