



innovative chemical technologies, inc.

FLEXISPERSE AT-7

TECHNICAL DATA SHEET

- ◆ **Ultra High Molecular Weight, Polyacrylic, Alkali-Soluble Thickener**
- ◆ **Disperses More Readily Than Powdered Thickeners**
- ◆ **Effectively Suspends Most Solids (Particulates, Pigments, Carbon Black, Abrasives, Fillers)**
- ◆ **Produces Long-Term Stable Suspensions Over A Broad Range Of Solids Levels**
- ◆ **Thickens To A Long, Leggy Consistency, Resists Creaming and Flocculation**
- ◆ **Non-Thixotropic, Extremely Slippery**
- ◆ **Has FDA Clearance For Both Adhesives (21 CFR Section 175.105) And Paper (21 CFR Section 176.170) For Use In Food Contact Applications**

Applications

- ◆ **Alkaline Thickener**
- ◆ **Tire Mounting Lubricant**
- ◆ **Improve Storage Stability Of Aqueous Emulsions**
- ◆ **Rheology Modification Of Coatings and Adhesives**
- ◆ **Provide Sag Resistance Of Latex Paint**

TECHNICAL INFORMATION

Flexisperse AT-7 is a powerful anionic thickener that is sold as a clear, viscous solution. It thins upon dilution in water to mix readily and easily. Upon neutralization to pH 7-8; however, the polymer swells dramatically, and even dilute solutions significantly increase in viscosity. In most cases, pH neutralization to provide thickness after everything else is effectively mixed in at low viscosity is the best way to use Flexisperse AT-7 in formulations.

Because it is anionic in nature, multivalent cations (including many metals) may cause some precipitation of the polymer. Freezing of the polymer emulsion may cause it to settle. This can often be undone by diluting slightly in water and neutralizing to thicken.

TYPICAL PROPERTIES

Appearance	Clear, Viscous Liquid
Density @ 25C	1.00 +/- 0.02
pH	2-3
Water Solubility	Soluble
Odor:	Mild
Boiling Point	100 C
Viscosity (when manufactured)*	90,000 cps (+/- 30,000 cps)

*Viscosity readings are Brookfield Model LVF, #4 Spindle, 3 rpm at 22 C

PACKAGING/HANDLING

Flexisperse AT-7 is available in 275 gallon totes (Net Wt. 2250 lbs), 55 gallon drums (Net Wt. 450 lbs) and 5 gallon pails (Net Wt. 40 lbs).
DOT Classification is Non Regulated