

GlucoPlus[®] C+3P

GlucoPlus[®] C+3P is a cold-water soluble, low viscosity, cationic polymer for use in industrial applications. GlucoPlus C+3P is a substituted natural polysaccharide designed to impart enhanced functional properties including: solution stability, surface activity, water retention, improved rheology and viscosity. GlucoPlus C+3P offers a unique alternative to competitive natural and synthetic water-soluble polymers.

The positive charge of GlucoPlus C+3P promotes interaction with negatively charged particles. This interaction makes it particularly suited for use within the paper industry for specialty wet-end applications, mineral flocculent and binder in vacuum forming operations, and particulate flocculent in water treatment operations.

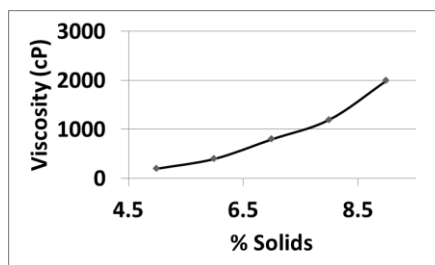
Application Properties

- Flocculation
- Lubrication
- Binding and Adhesion
- Thickening
- Colloid Protection
- Suspension
- Wet/Green Strength
- Water Retention
- Film Formation

Appearance

GlucoPlus C+3P is an off-white powder. Aqueous solutions are translucent and demonstrate excellent stability

Solids vs. Viscosity



Solution Preparation

The powder form of GlucoPlus C+3P readily solubilizes in water. To avoid lumping of the polymer, preparation of aqueous solutions requires the addition of the powder to the vortex of mechanically agitated water. Agitation should be maintained for a period of about 20 minutes to ensure separation and complete hydration of individual particles. Any agglomerates that initially form will break down with normal agitation and time.

The character and amount of agitation required will vary with solids concentration of the polymer and water temperature. High solids and cold water make-up may necessitate longer agitation time.

Solution Preservation

Extended storage of GlucoPlus C+3P polymer solutions could result in viscosity reduction due to microbial or enzymatic attack. Stored solutions should be protected by using a preservative. GlucoPlus C+3P is also available with built-in preservation.

Storage, Handling and Safety

Because of the hygroscopic nature of GlucoPlus C+3P, it is highly recommended that the material be stored in its original package in a dry facility. Shelf life can be affected by storage conditions such as temperature, humidity and overall surroundings of the storage area. A Safety Data Sheet is available from Chemstar and should be consulted prior to handling or use.

Availability

GlucoPlus C+3P is available in 50 lb multi-wall poly-lined paper bags for truckload and LTL shipments. For additional information, samples, or technical assistance regarding GlucoPlus C+3P or any other Chemstar product please contact 1-800-328-5037 or info@chemstar.com.



Typical Analysis

GlucoPlus C+3P	
Form	Powder
Viscosity (cP), 6% Solids LVT, 60 RPM, #2 Spindle	100 – 400
pH (6%Solids)	6.0 – 8.0
Moisture (%)	10 max
Bulk Density (lbs/ft ³)	25 – 35
Particle Size (% thru)	90 min (-) 300 micron
Nitrogen (%)	0.3
Ionic Character	Cationic

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