

GlucoStar[®] C500F-HV+

GlucoStar[®] C500F-HV+ is a cold-water soluble, high viscosity, anionic polymer for use in industrial applications. It is a substituted natural polysaccharide designed to impart enhanced functional properties including: solution stability, surface activity, water retention, improved rheology and viscosity. GlucoStar C500F-HV+ also offers a unique alternative to competitive natural and synthetic water-soluble polymers.

GlucoStar C500F-HV+ is specifically designed for use as a viscosifier in vat dyestuffs for textile flat goods printing applications. In addition, the ultra-low level of insoluble particles and high viscosity of GlucoStar C500F-HV+ makes it a good thickener for screen-printing

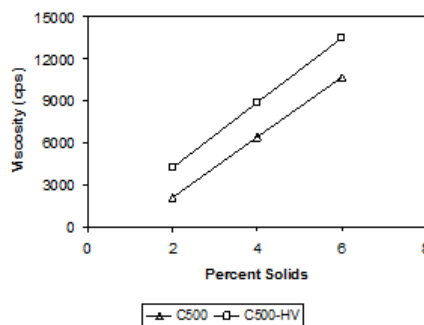
Application properties

- Lubrication
- Thickening
- Suspension
- Adhesion
- Binding
- Colloid Protection
- Film Formation
- Water Retention
- Shear Resistance
- Thermal Stability

Appearance

GlucoStar C500F-HV+ is an off-white flake. Aqueous solutions are translucent and demonstrate excellent stability

Effect of Solids Concentration on Viscosity



Hydration

GlucoStar C500F-HV+ exhibits a delayed hydration profile due to its flake form, avoiding any formation of lumps. However, slightly longer mixing times may be necessary to fully solubilize the flake polymer.

Solution Preparation

GlucoStar C500F-HV+ is easy to disperse and solubilize in water with minimal agitation. Lumping is not an issue. Maintain agitation for a period of about 30 minutes to ensure complete hydration of the flake particle.

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

The chemical substitution of GlucoStar C500F-HV+ provides enhanced solution bio-stability. Extended storage of solutions could result in viscosity reduction due to microbial or enzymatic attack. Stored solutions should be protected by the use of a preservative. GlucoStar C500F-HV+ is available with a preservative treatment.

Storage, Handling and Safety

Because of the hygroscopic nature of GlucoStar C500F-HV+, 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

GlucoStar C500F-HV+ is available in 44 lb multi-wall poly-lined paper bags for truckload and LTL shipments. For additional information, samples, or technical assistance in using GlucoStar or any other Chemstar product please contact 1-800-328-5037 or info@chemstar.com.



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TECHNICAL DATA SHEET



Typical Analysis

GlucoStar C500F-HV+	
Form	Flake
Viscosity (cP), 6% Solids LVT, 60 RPM, #4 Spindle	10,000 – 20,000
pH (6% Solids)	10.7 – 11.5
Percent Moisture (%)	12 max
Bulk Density (lb/ft ³)	20 – 25
Particle Size (% thru)	100 (-) 4750 micron
Insoluble Particles (%)	< 1
Ionic Character	Anionic

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