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## TECHNICAL DATA SHEET

# GlucoSol® 800

GlucoSol® 800 polymer is a new entry in the Chemstar water-soluble product line. It is a highly substituted natural polysaccharide designed to impart enhanced functional properties including: solution stability, salt tolerance, surface activity, water retention, improved rheology and viscosity.

GlucoSol® 800 offers a unique alternative to competitive natural and synthetic water-soluble polymers

#### **Applications**

- Flocculation
- Suspension
- Rindin
- Thickening
- Water Retention
- Shear Resistance
- Lubrication
- Adhesion
- Colloid Protection
- Rheology Modification
- Film Formation

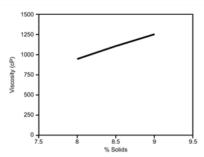
### **Main Applications**

- Quick Sets
- Spray Textures

### **Appearance**

GlucoSol 800 is supplies as an offwhite powder. Aqueous solutions are translucent and demonstrate excellent stability

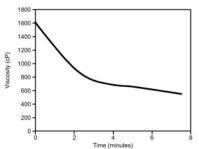
# Effect of Solids Concentration on Viscosity



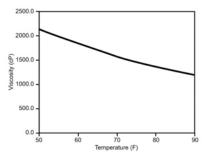
### **Solution Preparation**

GlucoSol 800 is easy to disperse and solubilize in water with minimal agitation. Agitation should be maintained for a period of about 30 minutes to ensure complete hydration of the polymer. The time and amount of agitation required will vary with solids concentration of the polymer. High solids and cold water make-up may necessitate longer mix times.

### **Effects of Shear on Viscosity**



# **Effect of Temperature on Viscosity**

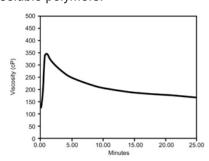


#### **Solution Preservation**

The chemical substitution of GlucoSol 800 provides enhanced solution biostability. Extended storage could result in viscosity reduction due to microbial or enzymatic attack. Stored solutions should be protected by the use of a preservative. GlucoSol 800 is also available with a preservative treatment.

### **Unique Hydration**

GlucoSol 800 exhibits a distinct hydration profile to allow the individual particles to briefly wet-out prior to rapid hydration of the polymer. This feature eliminates the formation of gel agglomerates typical of other water-soluble polymers.

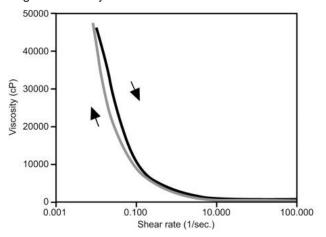




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### **Thixotropy**

Solutions of GlucoSol 800 exhibit near pseudoplastic behavior. Viscosity decreases with increasing shear and when the shear is removed the original viscosity is immediately recovered. Thixotropic solutions regain their original viscosity with a time element



### Storage, Handling, and Safety

GlucoSol 800 exhibits excellent storage stability if kept dry in its original package. 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 and should be consulted prior to handling or use.

### **Availability**

GlucoSol 800 is available in 50 lb. multi-wall poly-lined paperbags or 2000 lb supersacks for truckload and LTL shipments. Please contact Chemstar for additional information, samples or technical assistance in using this or any other Chemstar product.

### **Typical Analysis**

	GlucoSol 800
Viscosity (cP), 9% Solids LVT, 60 RPM, #4 Spindle	1500 – 3000
Percent Moisture (%)	10 max
Bulk Density (lb/ft³)	30 – 40
Particle Size (% thru)	95% min (-) 105 Micron

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