



ELVISC – CST G1™ (Corn Starch)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	White powder
Physical Form	Powder
Odor	Bland, tasteless, and odorless
Molecular Weight	(162.14)n g/mol
Density	1.5 g/cm ³
Specific Gravity	~1.50
Viscosity	Min. 35000 cP (8% solution, 40°C)
pH (10% solution)	5 - 6
Assay / Purity	Moisture: Max. 14% Protein: Max. 0.35% Fat: Max. 0.3%
General	
CAS Number	9005-25-8
Grade	Food Grade
Chemical Properties	
Ionic Nature	Non-ionic
Incompatibilities	Strong oxidizing agents, strong acids.
Hazardous Reactions	At high concentrations (>40 g/m ³), starch dust is potentially explosive in the presence of an ignition source.
Hazardous Decomposition Products	When heated to decomposition, may emit carbon oxides (CO, CO ₂), acrid fumes, and smoke.
Thermal Properties	
Melting Point	Decomposes before melting
Boiling Point	Not applicable
Flash Point	Not applicable
Autoignition Temperature	400 °C / 752 °F



Property	Specification
Thermal Stability	Stable under normal conditions of use and storage.
Solubility	
Solubility in Water	Practically insoluble in cold water; swells and forms a viscous solution or gel upon heating (gelatinization).
Solubility in Ethanol	Practically insoluble.
Solubility in Acetone	Practically insoluble.
Solubility in Diethyl Ether	Insoluble.

2. Processing Methods

Metronidazole Sustained-Release Tablets

Granules were prepared by wet granulation method using acacia gum as the binder and acetylated corn starch as a disintegrant. Lactose was used as the diluent. The tablets produced met the standard requirements for friability, hardness, and content uniformity, and provided sustained release of metronidazole over several hours.

Key Ingredients	Indicative Dosage (% w/w)
Acetylated Corn Starch	5, 7.5, 10, 15, 20, and 25%

Low-Fat Whipped Cream

Micronized cornstarch was used to partially substitute the fat in whipped cream.

Key Ingredients	Indicative Dosage (% w/w)
Fat	85%
Micronized Cornstarch	15%

3. Dosing by Application

Application	Recommended / Max Dosage
Disintegrating agent for tablets	3-15%
Binder in wet granulation	2.5-7.5% (w/v)
Lotions (to reduce tack and oiliness)	0.5-3%
Cream to powder formulations	Up to 30%
Topical body powders	Up to 99%

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.



EXPLORE ELCHEMY'S PRODUCT PORTFOLIO

[ELVISC - CST G1™ \(Corn Starch\)](#) | [Browse Catalog](#) | [Connect with us](#)