

SPECIFICATION OF CARBOXYMETHYL STARCH (CMS) PRINTING PASTE

Product Name: Fushixin® Carboxymethyl Starch (CMS) Printing Paste

Synonyms: CMS, Carboxymethyl Starch Sodium

HS Code: 3505100000

Application: Textile Printing & Dyeing

Description:

Fushixin® Carboxymethyl Starch (CMS) is a high-performance, eco-friendly thickener from Fushixin Chemical Co., Ltd. Designed for reactive and disperse dye printing, our multi-component CMS formulation improves paste rheology and stability. It ensures a smooth and uniform printing process, prevents screen clogging, and delivers exceptional color yield and brightness. As a high-value alternative to sodium alginate, Fushixin® CMS offers superior performance and a compelling cost advantage.

TECHNICAL DATA SHEET

General Specifications	Appearance	Viscosity (mPa.s/cps, Brookfield) (5% solution, 20°C)		Degree of Substitution (DS)	Moisture, %	Particle Size (Mesh)	Color Paste Stability
		Reactive-C	Disperse-CMS				
Result	White or yellowish powder, or yellowish granules	50000-55000	30000-40000	0.5-1.0	≤15	20-70	≥72h

Degree of Substitution (DS)		pH		Moisture (%)		Particle Size (Mesh)	
Reactive-C	Disperse-CMS	Reactive-CMS	Disperse-CMS	Reactive-CMS	Disperse-CMS	Reactive-CMS	Disperse-CMS
0.8-1.0	0.8-1.0	6.5-8.5	6.5-8.5	≤15	≤15	20-70	20-70

Note: Test methods should follow the Fushixin® Standard Document FSX-NK6-2011.

KEY FEATURES & BENEFITS

- 1.Exceptional Rheological and Chemical Stability:** Prevents color spreading and ensures sharp, clear print outlines.
- 2.Superior Color Yield:** Delivers excellent color value and brightness, allowing for vibrant and high-definition prints.
- 3.Strong Water Holding Capacity:** Prevents drying and screen clogging, ensuring a smooth and continuous printing process.
- 4.Excellent Compatibility:** Can be used with both reactive and acid dyes.
- 5.High Cost-Performance Ratio:** Offers a compelling alternative to sodium alginate, significantly reducing overall production costs.

PACKAGING AND STORAGE

Packaging: 25kg net weight in kraft paper bags with inner PE liner, or other packaging options as per customer request.

Storage:

- 1.Store in a cool, dry, and ventilated place. The ambient temperature should not exceed 40°C, with relative humidity not exceeding 80%.
- 2.This product is for industrial use only. It should not be stored with toxic substances or materials that have a strong odor.
- 3.The storage period should not exceed 2 years from the date of production.
- 4.Products should be protected from water and package damage during transportation.