



TECHNICAL DATA SHEET

Fushixin Print HD

CMC-based Textile Printing Thickener

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| Product Name | Fushixin Print HD | Document Type | TDS |
| Company | Foshan Fushixin Polymer Fiber Co., Ltd | Issue Date | 10 Jun 2026 |
| Brand | FSX Chemical | Revision | Rev. 04 |
| Product Category | CMC-based Textile Printing Thickener | Status | For Customer Reference |
| Chemical Basis | Sodium Carboxymethyl Cellulose (CMC) | CAS No. | 9004-32-4 |

1. Product Description

Fushixin Print HD is a CMC-based textile printing thickener designed for general reactive dye printing and blended thickener systems. It provides stable paste structure, good print definition and dependable processing performance for cellulosic fabrics such as cotton and viscose under proper application conditions. Fushixin Print HD can partially or fully replace sodium alginate in reactive printing systems

2. Typical Technical Specifications

| Parameter | Specification |
|------------------------------------|---|
| Appearance | White to light brownish powder |
| Ionic Nature | Anionic |
| Degree of Substitution (DS) | 1.9-2.0 |
| pH (1%) | 7.0-9.0 (1.0% aqueous solution) |
| Moisture Content | Max. 12.0% |
| Solubility | Readily soluble in cold water under high-speed stirring |
| Reference Viscosity | 1,300-1,600 mPa·s (1.0% aqueous solution, 20 °C) |

Testing note: Typical values only. Viscosity may vary according to concentration, temperature, hydration time, stirring conditions and testing method.

3. Key Advantages

- Practical electrolyte tolerance; suitable for printing systems containing common salts and alkali.
- Stable paste structure with good print definition and batch consistency.
- Good compatibility in blended thickener systems for formulation adjustment.
- Suitable for cotton, viscose and other cellulosic fabric printing formulations.
- Supports practical wash-off performance and soft hand feel after proper washing.

4. Recommended Applications

- General reactive dye printing on cotton, viscose and other cellulosic fabrics.
- Flat-screen printing and rotary screen printing.
- Reactive and disperse printing systems where CMC compatibility is required.
- Compatible with PTA and alginate systems for formulation adjustment.



5. Formulation / Process Guidance

Typical Stock Paste Formulation (per 1,000 kg)

| Component | Reference Addition |
|----------------------------|--------------------|
| Water | Balance |
| Urea | 50-200 kg |
| Sodium bicarbonate | 25-30 kg |
| Mild oxidant / resist salt | 10 kg |
| Fushixin Print HD | 15-20 kg |
| Total | 1,000 kg |

The formulation is a general guideline only. Actual dosage should be adjusted according to dye system, fabric type, printing method, target viscosity and customer process conditions.

6. Packaging and Storage

- Standard packing reference: 25 kg net multi-layer kraft paper bag with inner PE moisture-proof liner.
- Export labels and pallet packing are available upon request.
- Store in a cool, dry and well-ventilated warehouse; avoid humidity and direct sunlight.
- Keep bags tightly sealed after opening to prevent moisture absorption.
- Recommended shelf life: 12 months from production date under proper storage conditions.

7. Handling Notes

- Slowly add powder into cold water under high-shear stirring to avoid clumping.
- Continue stirring for approximately 30-45 minutes until fully hydrated; adjust hydration time according to equipment and water quality.
- Avoid dust generation during handling and keep the working area clean and ventilated.

Disclaimer: The information provided in this document is based on current technical knowledge and practical application experience. It is provided for customer reference only and does not constitute a warranty of final application performance. Customers should conduct their own tests to confirm suitability under actual production conditions.

Contact Information & Export Support

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Export support: TDS, COA, SDS/MSDS, sample labels, sample list and customized packing can be provided upon request.
For samples or quotation, please share your fabric type, printing process and target performance.