



TECHNICAL DATA SHEET

Fushixin Print HV

High Viscosity Sodium Alginate Printing Thickener for Reactive Printing

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| Product Name | Fushixin Print HV | Document Type | TDS |
| Company | Foshan Fushixin Polymer Fiber Co., Ltd | Issue Date | 22 Jun 2026 |
| Brand | FSX Chemical | Revision | Rev. 04 |
| Product Category | High Viscosity Sodium Alginate Printing Thickener | Status | For Customer Reference |
| Chemical Basis | Sodium Alginate | CAS No. | 9005-38-3 |

1. Product Description

Fushixin Print HV is a high-viscosity sodium alginate printing thickener designed for reactive dye printing on cotton, viscose, silk and other cellulosic fabrics. It provides smooth paste body, stable viscosity, clean print definition, good screen penetration and easy wash-off in rotary-screen and flat-screen printing processes.

2. Typical Technical Specifications

| Parameter | Specification |
|----------------------------|---|
| Appearance | Light brownish powder |
| Ionic Nature | Anionic |
| Grade | High viscosity sodium alginate |
| Reference Viscosity | 20,000-30,000 mPa·s (3% aqueous solution, 20 °C) |
| pH (1%) | 7.0-8.0 (1% aqueous solution) |
| Moisture Content | Max. 12.0% |
| Solubility | Readily soluble in cold water under high-speed stirring |

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

3. Key Advantages

- Natural alginate solution for reactive textile printing.
- Smooth paste body with good screen penetration and clean print outlines.
- Stable viscosity and reliable print consistency under proper process conditions.
- Bright color yield and good wash-off performance after steaming.
- Suitable for cotton, viscose, silk and cellulosic blend fabrics.
- Good electrolyte tolerance in practical printing systems containing salts and alkali.

4. Recommended Applications

- Reactive dye printing on cotton, viscose, silk and other cellulosic fabrics.
- High-body paste and low-dosage applications where stable paste viscosity is required.
- Rotary-screen printing and flat-screen printing processes.



5. Formulation / Process Guidance

Stock Thickener Preparation

| Component | Reference Addition |
|-------------------|--------------------|
| Fushixin Print HV | 3-5% |
| Water | 95-97% |
| Total | 100% |

Typical Reactive Color Paste (for reference)

| Component | Reference Addition |
|----------------------------|---------------------|
| Stock thickener | 600-700 kg |
| Urea | 50-100 kg |
| Sodium bicarbonate | 25-30 kg |
| Resist salt / mild oxidant | Approx. 10 kg |
| Reactive dyes | X kg |
| Water | Balance to 1,000 kg |
| Total | 1,000 kg |

Preparation note: Slowly add the powder into cold water under high-shear stirring. Continue stirring for about 30-45 minutes until fully hydrated and swollen. Adjust dosage according to fabric type, dye system, machine condition and target paste viscosity.

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

- Prevent dust formation and ensure adequate ventilation during handling.
- Avoid direct contact with strong acids, oxidants and excessive moisture.
- The above information is offered for technical reference and should be confirmed by customer trial before bulk application.

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.

8. 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.