

FOSHAN FUXIN HIGH POLYMER FIBER CO., LTD.

TECHNICAL DATA SHEET (TDS)

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Product Name: Premium Textile Printing Thickener (Sodium Alginate)

Application: Rotary and flat screen printing with reactive dyes on cellulosic fibers (cotton, viscose).

1. Product Description

Developed independently at our Foshan production base using professional synthesis technology, this high-performance printing thickener is designed to optimize the textile printing process. It serves as a superior, cost-effective alternative to traditional thickeners. It features excellent paste stability, brilliant color yield, and outstanding wash-off properties, ensuring flawless printing results in both traditional and modern printing processes.

2. Technical Specifications

Parameter	Specification Limit
Appearance	Brown powder
Ionic Nature	Anionic
pH Value (1% aqueous solution)	6.5 - 8.0
Viscosity (1% aqueous solution, 25°C)	20 - 2000 mPa·s (Customizable)
Moisture Content	≤ 12%
Solubility	Readily soluble in cold water under high-speed stirring

3. Key Advantages

- **100% Factory Direct:** Manufactured directly at our source factory, eliminating middleman markups and guaranteeing stable, batch-to-batch consistency.
- **High Color Yield:** Carefully engineered to maximize dye penetration into the fibers, significantly enhancing color vibrancy while reducing overall dye consumption.
- **Optimized Rheology:** The smooth paste formulation ensures crisp and sharp printing outlines without screen clogging, even during high-speed rotary printing.
- **Excellent Wash-Off:** Prevents back-staining and leaves a distinctly soft hand-feel on the finished fabric.
- **Strong Electrolyte Tolerance:** Highly stable and resilient in the presence of hard water, alkaline environments, and reactive dye salts.

4. Recommended Stock Paste Formulation (Reactive Printing)

- **Water:** X kg
- **Urea:** 50 - 100 kg (*Our advanced formulation requires less urea than standard thickeners*)
- **Sodium Bicarbonate:** 25 - 30 kg
- **Mild Oxidant (e.g., Resist Salt):** 10 kg
- **Fuxin Printing Thickener:** 40 - 50 kg
- **Total:** 1000 kg

Note: Slowly add the powder into cold water under high-shear stirring for 30-45 minutes until fully hydrated and swollen.

5. Packaging & Storage

- **Packaging:** 25 kg multi-layer kraft paper bags with an inner PE moisture-proof liner.
- **Storage:** Store in a cool, dry, and well-ventilated warehouse. Keep the bags tightly sealed when not in use to prevent moisture absorption.
- **Shelf Life:** 12 months under proper storage conditions.