

Product Data Sheet

Hot Swelling Starch (Conventional Cook-Type)

Description

Description	Hot Swelling Starch is a conventional, native-behaviour starch that requires heating to its gelatinization temperature to swell and develop viscosity. It remains the standard grade for textile warp sizing, paper coating/surface sizing, and adhesive formulations that incorporate a normal cook step in their process.
Applications	Standard textile warp sizing (cooked size bath) Paper coating and surface sizing Conventional adhesive formulations Food processing applications incorporating a cook step
Grade	Native/Conventional Cook-Type Grade
CAS No.	9005-25-8

Key Benefits

1. Reliable, well-understood gelatinization behaviour suited to established cook-process formulations
2. Cost-effective standard grade for high-volume textile sizing and paper coating applications
3. Consistent viscosity development on cooking, supporting predictable formulation performance
4. Widely accepted standard grade across the textile and paper industries

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Gelatinization Temperature	Standard Gelatinization Test	°C	60 – 80
Viscosity (Cooked 5–6% Paste, Brookfield)	Viscometer Method	mPa·s	Application-dependent, confirm with buyer
Moisture	Oven-Drying Method	wt%	Max. 13.0
pH (5% Solution)	pH Meter	–	5.0 – 7.0
Appearance	Visual	–	White powder

Packaging

Packaging 25 kg Kraft Paper Bags (PE-lined)
500 kg / 1,000 kg Jumbo Bags (FIBC)
Custom packaging available on request.

Storage & Handling

1. Store in a cool, dry, well-ventilated warehouse away from moisture
2. Keep bags sealed until point of use to prevent moisture pickup and microbial spoilage
3. Stack on pallets, away from direct ground contact
4. Use appropriate PPE (dust mask, goggles) when handling – avoid dust generation

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting gelatinization temperature, viscosity and moisture against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.