

Product Data Sheet

Oxidized Starch

Description

Description	Oxidized Starch is produced by controlled oxidation (typically hypochlorite-based) of native starch, resulting in reduced viscosity, improved whiteness and enhanced film-forming properties compared to native starch. It is widely used in paper coating and surface sizing where lower viscosity at high solids content is required, as well as in textile warp sizing and adhesive formulations.
Applications	Paper coating and surface sizing (high-solids, low-viscosity formulations) Textile warp sizing Adhesive formulations requiring low viscosity and good film formation General industrial applications requiring reduced starch viscosity
Grade	Standard Industrial Grade
CAS No.	Oxidized starch; base starch CAS 9005-25-8

Key Benefits

1. Reduced viscosity versus native starch, enabling higher-solids formulation at workable viscosity
2. Improved whiteness/brightness from the oxidation (bleaching) process
3. Good film-forming properties suited to paper coating and surface sizing
4. Widely accepted standard grade across paper and textile industries

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Viscosity (Cooked Paste, Brookfield)	Viscometer Method	mPa·s	Reduced vs. native starch (grade dependent)
Carbonyl Content	Titration Method	wt%	Indicates oxidation level (grade dependent)
Whiteness/Brightness	Colorimetric Method	–	Improved vs. native starch
Moisture	Oven-Drying Method	wt%	Max. 13.0
pH (1% 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 viscosity, whiteness 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.