



SHANDONG FUYANG BIO-TECH CO., LTD.

## Introduction of Modified Starch

—Production capacity: 100,000 tons/year

### Product Profile

Product Name: Modified corn starch

Other Names: Modified maize starch, Corn modified starch

Appearance: White powder

CAS No.: 9049-76-7

Starch Type: Oxidized starch, Acidized starch, Cationic starch



### Textile industry — Warp sizing

#### Acidized starch

#### Features and advantages

1. Low degree of polymerization, strong coagulability, high strength size film, good wear resistance of sizing
2. Viscosity of serous fluid is low, good liquidity, suitable for making high concentration size pulp with low viscosity
3. Easy to form an even size film
4. Short size pulp boiling time

#### Functions

1. Make yarn hairness smooth, form protective size film on the yarn surface, improve yarn wear resistance
2. Enhance the adhesion between monofilaments, enhance the effect of cluster
3. Make yarn surface smooth, reduce friction resistance during weaving
4. Increase the stiffness of all-cotton textiles

Contact: Welber Liu Mobile: +86-18117395170 E-mail: [welber@bio-fuyang.com](mailto:welber@bio-fuyang.com) Website : [www.bio-fuyang.com](http://www.bio-fuyang.com)

Factory Add: Pingyuan Economic Development East Area, Dezhou City, Shandong Province, China

Shanghai Office Add: Room702, Building A, No.9 Shenbin Road, Minhang District, Shanghai, China



Applications

1. As main sizing agent for cotton yarn, viscose yarn and ramie yarn
2. Mixed with PVA or polyacrylate to form mixture sizing agent, for blended yarn, such as polyester/cotton, polyester/viscose, polyester/linen, etc.
3. Used for fabric finishing

Specification

检测报告

CERTIFICATE OF ANALYSIS

产品名称 Product:	酸化淀粉 ACIDIZED STARCH	数量 Quantity:	20000KGS
批次 Batch No. :	20190325	日期 Production Date:	2019.03.25
规格 Specification:	25KG	有效期 Expiry Date:	2021.03.24

检测项目 Items	标准 Specifications	检验结果 Results
性状 Appearance	白色粉末 White powder	符合要求 Meets the requirements
水分 Determination of Water	≤14%	13.04%
细度 Fineness	≥98	99.3
斑点 SPOT (PIECE/CM2)	≤2.0	0.4
PH value	5.5--7	6.12
白度 WHITE	≥88%	90.1%
碱流度 Alkali mobility (s)	14--20	15.60

结论 Conclusion: 合格,准予出厂 Complies with requirements

检验员: 马维霞





# SHANDONG FUYANG BIO-TECH CO., LTD.

## **Oxidized starch**

### **Features and advantages**

1. Low viscosity, good liquidity, strong penetration, can be used in making high concentration size pulp with low viscosity
2. Size pulp is stable
3. Size film has good breaking strength
4. Size film is even and clear, can reduce starch lump
5. Size film is easily soluble in water, easy for desizing
6. The affinity for fiber is higher than native starch, and the adhesive force for cotton yarn and blended yarn (polyester/cotton, polyester/viscose) is higher than native starch

### **Functions**

1. Make yarn hairiness smooth, form protective size film on the yarn surface, improve yarn wear resistance
2. Enhance the adhesion between monofilaments, enhance the effect of cluster
3. Make yarn surface smooth, reduce friction resistance during weaving

### **Applications**

1. Oxidized starch can be main size agent for medium and fine cotton yarn and linen yarn. The physical mechanical properties and manufacturability of its sizing is better than native starch
2. Oxidized starch has good compatibility with PVA, polyacrylate synthetic size. The mixture size agent is widely used to warp sizing for polyester/cotton, polyester/cotton, polyester/viscose, polyester/wool, and other blended yarn

检测报告

CERTIFICATE OF ANALYSIS

产品名称 Product:	氧化淀粉 OXIDIZED STARCH	数量 Quantity:	25000KGS
批次 Batch No. :	20190322	日期 Production Date:	2019.03.22
规格 Specification:	25KG	有效期 Expiry Date:	2021.03.21

检测项目 Items	标准 Specifications	检验结果 Results
性状 Appearance	白色粉末 White powder	符合要求 Meets the requirements
水分 Determination of Water	≤14%	13.11%
细度 Fineness	≥98	99.1
斑点 SPOT (PIECE/CM2)	≤2.0	0.4
PH value	6-7	6.65
白度 WHITE	≥88%	94.5%
粘度 Viscosity	1.0—30.0 mpa.s	18.0 mpa.s
结论 Conclusion	合格,准予出厂	Complies with requirements

检验员：胡志芬



Textile industry --- Printing gum

1. High whiteness
2. The printing gum has good rheological properties, low viscosity and very stable
3. Good plasticity, low degree of congelation
4. Good film-forming property, film is transparent and tough



# SHANDONG FUYANG BIO-TECH CO., LTD.

## Package, Shelf life, Storage

Package: 25kg/bag, 20 tons / 20 ft container without pallet

850kg/bag, 17 tons / 20ft container with pallet

Shelf Life: 24 months

Storage: cool and dry place, avoid direct sunlight

