

# FIRM-TEX® 06863102

FIRM-TEX® modified food starch is derived from waxy maize. It is used as a binder and texturizer in cooked meat products and other applications where a low gelatinization temperature is required. This product is available under Ingredion Incorporated's TRUETRACE® Identity Preserved Program for non-GM products.

# **Chemical and Physical Properties**

	Min.	Max.
Moisture, %	-	13.0
pH (20% w/w slurry)	4.5	7.0
Viscosity (CML-M106)		
End, MVU	340	540

#### **Physical Appearance Typical** White to Off-White Fine Powder Form

Screen Test	Typical
% thru U.S.S. #100	>95
% thru U.S.S. #200	>85

# **Microbiological Limits**

Initial testing is done on a single composite sample against a limit of m. If result is above m, the three class sampling and acceptance below is used.

	n	C	m	M
Total Plate Count/g	5	3	10,000	100,000
Yeast/g	5	3	200	1,000
Mold/g	5	3	200	1,000
Enterobacteriaceae	5	3	100	1,000
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Where n = # of samples tested; c = maximum allowable number of results between m and M; m = upper target limit; M = maximum acceptable value.

E. coli	Negative
Salmonella	Negative
Meets NFPA specification for thermophilic bacteria	1.

Nutritional Data/100 g	Typical
Calories	360
Calories from fat	0
Total Fat, g	<0.1*
Cholesterol, mg	0
Sodium, mg	148
Total Carbohydrate, g	89.9
Dietary Fiber, g	0
Total Sugars, g	<0.1*
Added Sugars, g	0
Other Carbohydrate, g	89.9
Protein, g	0.2
Vitamin D, mcg	0
Calcium mg	3
Iron, mg	<0.2*
Potassium, mg	<10*
Ash, g	0.2

<sup>\*</sup> Not present at level of quantification.

## Certification

Kosher pareve

# **Packaging and Storage**

FIRM-TEX® modified food starch is packaged in multi ply Kraft paper bags with net weight of 50 lbs. FIRM-TEX® modified food starch should be stored in a clean, dry area at ambient temperature and away from heavily aromatic material.

#### **Shelf Life**

The best before date for FIRM-TEX® modified food starch is 24 months from the date of manufacture.

## Regulatory Data

Source Waxy Maize

#### **United States**

Meets FCC (Food Chemical Codex) requirements. Labeling Food Starch-Modified

### Canada

CFDA Regulation B.16.100. Table XIII Modified Corn Starch Labeling

#### **Features and Benefits**

FIRM-TEX® modified food starch has excellent water binding capacity making it ideally suited for applications in the meat industry. It can be used to partially replace skim milk powder and to reduce moisture loss in vacuum packaged meats. Using FIRM-TEX® modified food starch at two to four percent can significantly improve consistency, extended shelf life, and decrease "drip" in a wide variety of smokehouse cooked meats. This starch also imparts good viscosity and a smooth short texture in high pH soups and sauces. Its low gelatinization temperature allows it to function in dry mix products added to "hot water."

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Effective Date: May 6, 2023

Next Review Date: May 6, 2026

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