

# Frosin- TS-CWS- E1420

## ACETYLATED STARCH

### DESCRIPTION

FroSin-TS-CWS-E1420 is an Acetylated Starch-Pregelatinized Tapioca based starch which is a **Vegan, Plant-based, Gluten free and Non-GMO based product** that is **pre-cooked, soluble in cold water**. It can be used as a Thickener, Binder, Emulsifier and Stabilizing agent in various **frozen products, Instant food products, Frozen foods, Sauces and Bakery products**.

### SPECIFICATIONS

S. No	PARAMETERS	SPECIFICATIONS	METHOD OF ANALYSIS
1	APPEARANCE	OFF WHITE FREE FLOWING GRANUAL POWDER	ASF/QP/QA/06/15
2	SOLUBILITY	100% SOLUBLE IN COLD WATER	ASF/QP/QA/06/01
3	pH OF 10% (aqu.Soln)	5 TO 7.5	IS 4706(PART 2)
4	VISCOSITY OF 5% SOLUTION IN BROOKFIELD VISCOMETER, (Spindle No:2, RPM :100, Temp: 30° C)	100 TO 300cP	ISI 17- 1e
5	MOISTURE CONTENT (w/w)	Max 13%	IS 4706(PART 2)
6	BULK DENSITY (gms/ml)	0.3 TO 0.5	ASF/QP/QA/06/08
7	PARTICLE SIZE (60 MESH)	MIN PASS 80%	BS 410 1986
8	ASH CONTENT (w/w)	Max 0.5%	IS 4706(PART 2)
9	ACETYL CONTENT,%	1.5- 2.5%	ISI 14- 2e

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### MICROBIOLOGICAL PARAMETERS

S.No	TEST PARAMETERS	UNITS	LIMITS AS PER FSSAI	METHOD OF ANALYSIS
1	Total Plate Count	cfu/g	Not more than 20000	IS 5402
2	Yeast & Mould	cfu/g	Not more than 100	IS 5403
3	<i>E coli</i>	Present/Absent/g	Absent	IS 5887:PART 1
4	Salmonella	Present/Absent/25	Absent	IS 5887:PART 3
5	Coliform	cfu/g	Absent	IS:5401
6	<i>Staphylococcus aureus</i>	Present/Absent/25	Absent	IS 5887:PART 2
7	<i>Listeria monocytogenes</i>	Present/Absent/25	Absent	IS 14988:PART 1

### MINERALS AND HEAVY METALS PARAMETERS

S.No	TEST PARAMETERS	UNITS	LIMITS	METHOD OF ANALYSIS
1	Arsenic	mg/kg	Not more than 0.3	FSSAI MANUAL 2016
2	Lead	mg/kg	Not more than 0.1	FSSAI MANUAL 2016
3	Cadmium	mg/kg	Not more than 0.1	FSSAI MANUAL 2016
4	Mercury	mg/kg	Not more than 0.01	FSSAI MANUAL 2016
5	Copper	mg/kg	Not more than 1	FSSAI MANUAL 2016
6	Tin	mg/kg	Not more than 0.1	FSSAI MANUAL 2016
7	Zinc	mg/kg	Not more than 5	FSSAI MANUAL 2016

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### APPLICATIONS

#### As a Thickener:

FroSin-TS-CWS-E1420 can be used as a thickener and mouth-feel enhancer in canned foods, sauces, puddings, gravies, fruit pies, soups.

#### As a Stabilizer and Texturizing Agent:

FroSin-TS-CWS-E1420 can be used in products that undergo refrigeration process. It helps to improve stability during freezing - thawing, improve water holding capacity. It also acts as texturizer for various foods.

#### In Baking and Confectionery:

FroSin-TS-CWS-E1420 can be used as a stabilizer, thickener, binder, emulsifier in ice cream, cakes, and dumplings. It's is also stable at high temperatures and low pH and hence highly suitable for use in confectionery. It also has a lower gelatinisation temperature.

#### For Gluten-Free Products:

FroSin-TS-CWS-E1420 can be used as a Gluten-Free substitute in various foods including instant foods, Instant noodles, Vermicelli, Frozen fast food, Rice paper, cakes and Food coatings.

### FEATURES AND BENEFITS

It is highly bio-degradable and causes no harm to the Environment.

**FroSin-TS-CWS-E1422 is Pre-cooked and soluble in cold water.**

FroSin-TS-CWS-E1422 is a White powder that adds no color to application and blends well with other ingredients. It has a bland taste and so will not mask flavors or aromas.

FroSin-TS-CWS-E1422 contains no fat, protein, fiber, vitamins, or other minerals.

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### DOSAGE

For excellent results, use 10 to 15 % FroSin-TS-CWS-E1422 (The protein content in Maida and other additives if any, may have effect on dosage %)

### STORAGE

Exhibits excellent stability when stored under cool and dry ventilated place. Avoid direct sun light.

### BEST BEFORE DATE

Twelve months from the date of manufacturing.

### PACKING

Available in 25 Kgs net weight paper bags with moisture proof liner inside.

### ADDITIONAL INFORMATION

<b>FSSAI Certification</b>	Yes
<b>ISO 9001:2015 Certification standard from SGS</b>	Yes
<b>ISO 22000:2018 Certification standard from SGS</b>	Yes
<b>BRC Global Standard for Food Safety Certification from SGS</b>	Yes
<b>Kosher Certification by Kosher Check, British Columbia, Canada</b>	Yes
<b>Halal Certificate</b>	Yes
<b>ZED Certificate</b>	Yes
<b>Preservative</b>	NOT PRESENT/ USED IN PRODUCT

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