

# ANGEL RS 3700-MODIFIED STARCH- E1413-POTATO BASED PHOSPHATED DISTARCH PHOSPHATE DESCRIPTION

Angel RS 3700-Modified Starch-E1413 is Potato starch based Phosphated Distarch Phosphate (E-1413). The **Resistant starch (High dietary fiber)** is **Vegan, Gluten-Free, Plant-based and Non-GMO**. It can be used as a Thickener, Emulsifier, Binder and Stabilizing Agent in **Sauce, Ketchup, Beverages, Confectionary products, Processed food, Bakery products Biscuits, Cookies and Dairy products.**

## SPECIFICATIONS

S.No	PARAMETERS	SPECIFICATIONS	METHOD OF ANALYSIS
1	APPEARANCE	WHITE TO OFF WHITE COLOUR FINE FREE FLOWING POWDER	ASF/QP/QA/06/15
2	SOLUBILITY	INSOLUBLE IN COLD WATER	ASF/QP/QA/06/01
3	pH OF 3% (aqu. Soln)	5 TO 7	IS 4706(PART 2)
4	VISCOSITY OF 3% SOLUTION IN BROOKFIELD VISCOMETER, Spindle No:2, RPM :100, Temp: 80° C)	600 - 1200 cP	ISI 17- 1e
5	MOISTURE CONTENT (w/w)	Max 13%	IS 4706(PART 2)
6	PARTICLE SIZE (100 MESH)	MAX 1%	BS 410 1986
7	BULK DENSITY (gms/ ml)	0.8 TO 1.0	ASF/QP/QA/06/08
8	TOTAL CARBOHYDRATE	Min 87gm/100gm	IS 1656
9	TOTAL DIETARY FIBER	Min 75gm/100gm	AOAC 991.43

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# ANGEL RS 3700-MODIFIED STARCH- E1413-POTATO BASED PHOSPHATED DISTARCH PHOSPHATE MICROBIOLOGICAL PARAMETERS

S.No	TEST PARAMETERS	UNITS	LIMITS AS PER FSSAI	METHOD OF ANALYSIS
1	Total Plate Count	Cfu/g	Not more than 40000	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:5402
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 AS PER FSSAI	METHOD OF ANALYSIS
1	Arsenic	Mg/kg	Not more than 1.1	FSSAI MANUAL 2016
2	Lead	Mg/kg	Not more than 2.5	FSSAI MANUAL 2016
3	Cadmium	Mg/kg	Not more than 1	FSSAI MANUAL 2016
4	Mercury	Mg/kg	Not more than 0.25	FSSAI MANUAL 2016
5	Copper	Mg/kg	Not more than 30	FSSAI MANUAL 2016
6	Tin	Mg/kg	Not more than 250	FSSAI MANUAL 2016
7	Zinc	Mg/kg	Not more than 50	FSSAI MANUAL 2016

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## APPLICATIONS

### As a Thickener and Stabilizer:

Angel RS 3700-Modified Starch-E1413 Potato based can be used in foods as a bulking agent and stabilizer. Gives medium smooth thickness & texture to the products like **Ketchup, Chili Sauce, Soy Sauce, Chocolate sauce, Canned foods, Baked Foods, Gravies, Yoghurt, Jelly, Pudding, Bakery products Biscuits, Cookies and Dairy products.**

### For Shear Applications :

Angel RS 3700-Modified Starch- E1413 Potato based has high process tolerance, it is resistant to high heat and shear. It has high resistance against acids, sugar, salt and excellent freeze/thaw stability. It adds luster to the products, making them more appealing.

### For Gluten-Free Products:

It contains **80% dietary fiber on dry basis**, resistant starch also has the potential of being a prebiotic. Prebiotics are defined as indigestible foodstuffs capable of functioning as substrates for growth or selection of beneficial bacteria growing in human gut.

### For Candy and Confectioneries:

It is particularly applied in candy making as it helps to form shell like structure easily. The starch that is gelatinized is applied in preparing jelly confectioneries as it transforms the gummy ingredients into candies with soft texture.

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# **ANGEL RS 3700-MODIFIED STARCH- E1413-POTATO BASED PHOSPHATED DISTARCH PHOSPHATE**

## **FEATURES AND BENEFITS**

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

Angel RS 3700-Modified Starch- E1413 Potato based is a resistant starch. It contains **80% dietary fibre** on dry basis.

Angel RS 3700-Modified Starch- E1413 Potato based 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.

Angel RS 3700-Modified Starch- E1413 Potato based contains no fat, protein, vitamins, or other minerals.

## **DOSAGE**

Use upto 5% Angel RS 3700-Modified Starch- E1413 Potato based of total batch size. For excellent results, used upto 20% Angel RS 3700-Modified Starch- E1413 Potato based of total batch size.

## **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.

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## ADDITIONAL INFORMATION

ISO 9001:2015 Certification standard from SGS Yes

ISO 22000:2018 Certification standard from SGS Yes

BRC Global Standard for Food Safety Certification from SGS Yes

Kosher Certification by Kosher Check Yes

Halal Certificate Yes

Preservative NOT PRESENT/ USED IN PRODUCT

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