

ANGEL RS 3700 TS

E-1413 (PHOSPHATED DISTARCH PHOSPHATE)

DESCRIPTION

ANGEL RS 3700 TS is a Chemically modified Tapioca starch, **Vegan, Gluten-Free, Plant-based, Non-GMO** starch. It is produced by Cross-linking containing phosphodiester cross-links within and between starch molecules. Angel RS 3700 TS is a **Resistant Starch** type 4 (RS 4) enhancing the fiber content of the food products and reducing calorific intake. Angel Rs 3700 TS is not digested in small intestine and exhibits a level a slow digestibility and slow release fo glucose.

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)	100 TO 300 cPs	ISI 17- 1e
5	MOISTURE CONTENT (w/w)	Max 13%	IS 4706(PART 2)
6	BULK DENSITY (gm/ ml)	0.5 TO 0.7	ASF/QP/QA/06/08
7	PARTICLE SIZE (100 MESH)	PASS 99%	BS 410 1986
8	TOTAL DIETARY FIBRE	Min 75 gm./100 gm.	AOAC 991.43
9	TOTAL CARBOHYDRATE	Min 87 gm./100 gm.	IS 1656

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Document Ref no: ASF/QA/TDS/006

Issue date : 02.09.2021

Revision no:02



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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: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 Resistant starch:

Angel RS 3700 TS being a functional fiber, its fine particles and bland taste make possible the formulation of a number of food products with better consumer acceptability and greater palatability than those made with traditional fibers.

Angel RS 3700 TS has beneficial role on human health and had physiological functions similar to dietary fiber, such as altering lipid metabolism, improving cholesterol metabolism, effect on colon microflora, reducing the risk of ulcerative colitis and the glycemic index of foods

- Angel RS 3700 TS shows improved crispness and expansion in certain products and better mouthfeel, color, and flavor over products produced with some traditional, insoluble fibers
- Angel RS 3700 TS inhibits the rapid post-meal rise in blood glucose and insulin, and the gastrointestinal hormones which are related to feeding suppression and increased insulin secretion. It increases the bile acid-binding capacity and bioavailability of minerals. It also decreases risk colon and other cancer
- Replacement of traditional fibres with Angel RS 3700 TS could significantly increase postprandial lipid oxidation suggesting reduction in fat accumulation
- It is ideal for use in RTE cereals,snacks, pasta/ noodles, baked goods, and fried foods

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- Being non digestible, RS can be used in reduced-fat and sugar formulations
- Angel RS 3700 TS can be used as substrate for growth of pro-biotic beneficial microorganisms
- Angel RS 3700 TS can also be used as crispiness enhancer in French toasts and waffles
- It can be used for fortification of several food products such as breakfast items, snacks, and also incorporated into variety of baked foods such as cakes, cake-like muffins, brownies. It imparts favourable tenderness to the crumb.

Other special attributes:

- Angel RS 3700 TS can be used as viscosifiers and texturizers in soups, sauces, gravies, bakery and dairy products
- Angel RS 3700 TS provide textural enhancement and improve expansion in extruded cereals and snacks

For Gluten-Free Products:

It can be used as a Gluten-Free substitute in various foods including Baked products (Bread, cakes, cookies, snack crackers, RTC cake mixes, muffins, pizza crust, flat bread), Gluten free pasta, noodles, macaroni, Fried Products(Nuggets, Meat Balls, Cutlets, Chicken Finger, Popcorn, Sausages, Flavored Sausages and Ready to Fry Minced meats).

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FEATURES AND BENEFITS

Angel RS 3700 TS enhances the appearance, texture and mouth feel of the product

Angel RS 3700 TS provide greater palatability to food products

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

Angel RS 3700 TS 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.

DOSAGE

Use 5 to 10% Angel RS 3700 TS of total batch size. For improved benefits, use up to 15% of total batch size. (Dosage may vary according to nutritional requirement)

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

FSSAI Certification	Yes
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,British Columbia, Canada	Yes
Halal Certificate	Yes
ZED Certificate	Yes
Preservative	NOT PRESENT/ USED IN PRODUCT

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Review due date: 01.08.2023

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