



Private Production and Commercial Enterprise

**VIMAL**

since 1992

Registration address: 70 Shevchenka Tarasa street, Drozdivka, Chernihiv Region, Ukraine, 16331; Registrational number: 14224631



+38 050 313 30 50

+38 050 313 30 70



Postal: 5 Instrumentalna, Chernihiv, Ukraine, 14037



sekretar@vimal.ua

# Technical Data Sheet

## Native Potato Starch “VIMAL”

Potato starch is a white powder, a biopolymer obtained from potato tubers. It has significantly better and unique characteristics compared to its analogues (corn, tapioca, rice, pea, etc.) It is a versatile and high-quality carbohydrate obtained from potatoes through a thorough and environmentally friendly process. It is a fine, white, odourless and tasteless powder with exceptional binding, thickening and gelling properties. Renowned for its purity, consistency and functionality, potato starch is widely used in a variety of industries. It has excellent thickening and binding properties, helps to improve the texture and moisture content of foods, and is a gluten-free alternative to wheat flour.

## General characteristics

No.	CHARACTERISTICS	VALUE
1.	Form	Homogeneous powder
2.	Color	Crystalline white
3.	Witnesses	min. 91%
4.	Odour	Characteristic of starch, free from foreign odour
5.	Moisture content	max. 20 %
6.	Acidity	$\leq 7,5 \text{ cm}^3/100 \text{ g}$
7.	Ash (on dry base)	$\leq 0,3 \%$
8.	Foreign starch content	Absent
9.	Sulphurus Anhydride (SO <sub>2</sub> )	Absent
10.	pH	6,5 - 7,5
11.	Viscosity, (Brabender tech.)	1200 - 2000 BU
12.	Metal foreign matter	Absent
13.	GMO content	Absent

## Nutritional Content per 100 g

No.	CHARACTERISTICS	VALUE
14.	Energy value	318 kcal
15.	Fat	0 gr
16.	of which saturated	0 gr
17.	Carbohydrates	79,5 gr
18.	of which sugars	0 gr
19.	Protein content	0 gr
20.	Salt	0 gr
21.	Fibers	0,5 gr



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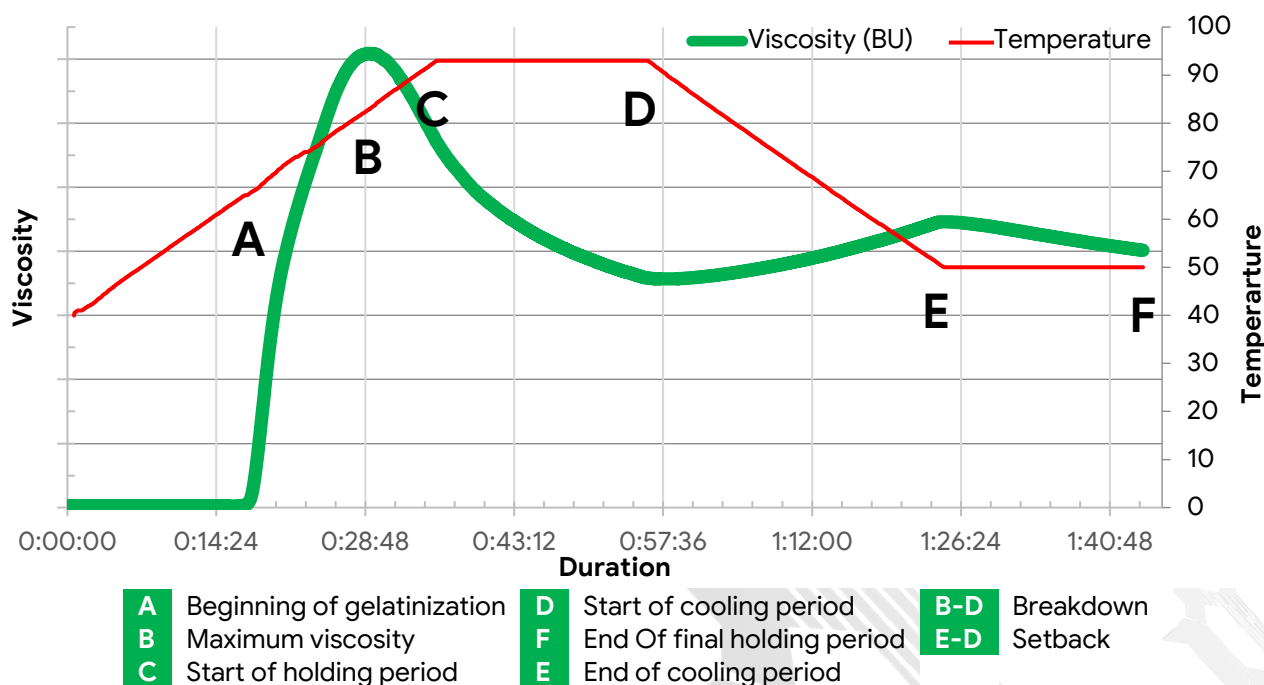
## Toxic elements And Radionuclides Content

No.	CHARACTERISTICS	VALUE
22.	Mercury (Hg), mg/kg	<0,02
23.	Arsenic (As), mg/kg	<0,1
24.	Copper (Cu), mg/kg	<10
25.	Lead (Pb), mg/kg	<0,05
26.	Cadmium (Cd), mg/kg	<0,1
27.	Zink (Zn), mg/kg	<30
28.	Strontium-90, Bq/kg	<200
29.	Caesium-137, Bq/kg	<600

## Microbiological Characteristics

No.	CHARACTERISTICS	VALUE
30.	Total plate count, CFU/g	<10000
31.	Escherichia coli (1 g)	Absent
32.	Salmonella (25 g)	Absent
33.	S. aureus (1 g)	Absent
34.	Moulds, CFU/g	<250
35.	Yeast, CFU/g	<100

## Average Brabender viscosity graph (BU)



### Viscosity analysis method ISI 19-6e:

4% slurry concentration is prepared with demineralized water and tested on Brabender Viscograph unit with 700cmg head using + 1.5 °C/min - 1.5 °C/min temperature slope and 75RMP speed.



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## Approved By Our Client's Production's and Excellent In

SECTOR	APPLICATION	DETAILS
	Thickening agent	Thickening agent in soups, sauces, gravies etc., gives a transparent, glossy appearance to the food items
	Gluten-Free Baking	Provides structure and moisture to baked goods
	Meat Processing	Improves water retention and protein stability
	Fish Products	Binder in fish cakes and patties, coater in breaded or battered fish, texturizer surimi-based products, fish sausages and fish balls, fish soups and sauces.
	Noodles/Pasta	Improves texture and taste
	Confectionery	Used as a gelling agent, thickener, and stabilizer, It's used in the production of candies, jellies, and chewing gums
	Prepared Foods	Improves texture and stability. It helps to stabilize the water content, preventing syneresis (water separation)
	Dairy Alternatives	Non-dairy yogurts and cheeses, used for its gelling properties to provide the desired texture and consistency
	Batter and Coatings	Used in batter and coatings for its ability to create a crispy crust when fried, also helps to prevent the product from absorbing too much oil
Pharmaceutical Industry	Tablet Disintegrant	Disintegrant in pharmaceuticals, helps tablets to break down when they come into contact with moisture
Textile Industry	Adhesive	Sizing of yarns to strengthen the yarn and reduce breakage during weaving
Paper Industry	Surface Sizing Agent	Surface sizing agent to improve the printability and strength of paper
Bioplastics	Sustainable Packaging	Biodegradable and renewable nature being used plastic substitute for packaging material
Cosmetics	Natural Ingredient	Used in cosmetics as a natural ingredient for its absorbent and properties



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## VIMAL strengths

- **Experience and legacy:** We are the first and largest potato starch producer in Ukraine with experience since 1992 having production quality as a philosophy.
- **Viscosity to maximum:** Thanks to unique laboratory equipment from Germany, we can control such an extremely important indicator as **viscosity**. By purchasing our product with an average viscosity of 1400 BU, you will use half as much as a competitive product with a viscosity of 700 BU.
- **Purity and quality:** Our potato starch is produced from premium potatoes, which ensures high purity and exceptional quality, without any additives or impurities. This makes it an ideal choice for industries requiring first-class ingredients, including pharmaceuticals and baby food.
- **Thickening and stabilizing properties:** VIMAL starch has excellent thickening and stabilizing properties, making it a valuable ingredient for a variety of products such as adhesives, coatings and tackifiers.
- **Adhesive strength:** Its strong adhesive properties make it an indispensable component in the production of paper, corrugated board and other paper products, enhancing their structural integrity and performance.
- **Film-forming properties:** Our starch creates strong and flexible films when used in film-forming processes, such as in the production of biodegradable plastics and coatings.
- **Gelling agent:** Thanks to its gelling ability, potato starch from VIMAL is an important ingredient in the production of gel-like products, including desserts, fruit fillings and jellies.
- **Texture improvement:** The addition of VIMAL potato starch to food, pharmaceuticals and personal care products improves their texture and flavour, increasing the overall appeal of the product.
- **Gluten-free and non-allergenic:** Potato starch with its nature is gluten-free and non-allergenic, making it suitable for people with dietary restrictions and allergies.
- **Environmentally friendly and renewable source:** Derived from potatoes, a renewable and sustainable resource, our potato starch is in line with environmentally conscious practices and supports environmental initiatives.



## Packing

Native potato starch VIMAL is packed into 25 kg bags or 0,5 kg packets for retail chains. We are thoroughly look after our goods packing process thus, we have spent verity of experiments and made many tests under more than one hundred bag samples till we got the best variant. As a result, now we are packing our starch into paper bags which are made under unique technology, it allows the goods to "breathe" during the transportation but at the same time it protects the starch from the external environment. As evidence you can freely throw our bag from an altitude of the human height without any risk of breach. But even this is not all of our packing benefits. Small 0,5 kg packets can bear the weight which is 200 times bigger than their own one and by the way it is the weight of an adult man under 100kg.



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## VIMAL potato starch 25kg bag packing



## Labeling

Date of manufacture and best before are market. If needed, an additional customer's labels may be performed on a special place for labeling which is present at the side of the bag. The labeling is made by direct printing or by placing a sticker on a bag.

Side of the bag



Top side of the bag



## Storage

According to DSTU 4286:2004 Amendment No. 1, potato starch should be stored at a temperature not exceeding 40 °C. It is not allowed to store starch together with substances that have a strong odour, but the manufacturer recommends storing starch in cool, dry facilities with the original packaging intact and avoiding direct contact with sunlight in storage.

**Shelf life – 60 months.**