

2 minutes application break

Starch

Facts

Origin Unknown

Dates back Ancient civilizations

Ingredients Starch is a naturally occurring carbohydrate found in plants

A thickener, stabilizer, and texturizer in food products.

MixSing Standard



Design

| | |
|-------------|--|
| Shear | CFD simulations confirms $>200,000 \text{ s}^{-1}$ |
| Design | According to European legislation and CE marked |
| Hygiene | Complying with EHEDG guidelines |
| Viscosity | Up to 1,500 cP |
| Accessories | |
| Materials | Stainless steel: AISI 316L. All materials: EC 1935 |

Insight

Starch is a complex carbohydrate found in many plants, primarily in the form of granules. It comprises long chains of glucose molecules and is a major energy source for plants and animals. In humans and other animals, starch is broken down into glucose during digestion and used as energy.

Starch has been used for thousands of years, with evidence of its use dating back to ancient civilizations in the Americas and Asia. For example, the Incas in South America used potatoes as a staple food, and the ancient Chinese used starch from rice to make noodles.

In the 19th century, the first commercial starch production began in Europe and North America. This early form of starch was created by extracting it from plants such as wheat and corn through a process of wet milling or dry milling. The introduction of new technologies, such as steam-powered mills and improved separation methods, made the extraction of starch more efficient and cost-effective.

During World War II, starch became a vital ingredient in producing food rations for soldiers, as it helped preserve fruits and vegetables for longer periods. After the war, starch became more widely used

in commercial products such as bread, noodles, and pastries.

In recent years, there has been a growing trend towards using more natural and organic ingredients in food production and a renewed interest in traditional methods of starch extraction. Additionally, new technologies have been developed to extract starch from alternative sources such as cassava, sweet potatoes, and even algae.



The power of simplicity

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