

2 minutes application break

Sugar

Facts

Origin India & China
Dates back 8000 BCE
Ingredients Sucrose

Sugar is used as a sweetener in many beverages

MixSing Vortex



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 1,000 cP
Accessories	Table
Materials	Stainless steel: AISI 316L. All materials: EC 1935

Insight

Sugar is a sweet, crystalline substance derived from various plants, primarily sugarcane and sugar beets. It is widely used as a sweetener in food and beverages and the production of various other products, such as candy, baked goods, and jams.

The history of sugar dates back to ancient times, with evidence of sugarcane cultivation in India and China as early as 8000 BCE. However, it was not widely used as a sweetener until the 8th century, when it was introduced to the Islamic world through trade. From there, it spread to the Mediterranean and eventually to Europe, where it was used primarily by the wealthy

and was considered a luxury item.

In the 15th century, sugarcane was brought to the Caribbean by the Spanish, and the mass production of sugar began in the form of sugarcane plantations using slave labour. By the 18th century, sugar had become an important commodity and a major driver of the transatlantic slave trade.

In the 19th century, sugar beet was developed as a more efficient source of sugar, and by the early 20th century, it had surpassed sugarcane as the primary source of sugar in Europe. During World War II, sugar beet became a critical crop due to the

shortage of imported sugarcane.

In the last few decades, there has been a growing concern about the health effects of excessive sugar consumption, leading to a shift towards alternative sweeteners such as Stevia, Erythritol, monk fruit, and others. Additionally, there has been a growing demand for unrefined and minimally processed sweeteners such as honey, maple syrup, and agave nectar.

Today, sugar is widely used in various products and is available in many forms, including granulated, powdered, liquid, and brown sugar.