

2 minutes application break

# Infant formula

## Facts

**Origin** Justus von Liebig

**Dates back** 1865

**Ingredients** Protein, fat, sucrose, vitamins, minerals etc.

Infant formula is used as a supplement to breast feeding of infants.

## MixSing Vacuum



### 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	Vacuum system
Materials	Stainless steel: AISI 316L. All materials: EC 1935

## Insight

Infant formula is a manufactured food designed to replace breast milk as a source of nutrition for babies. It is typically made from a combination of proteins, carbohydrates, fats, vitamins, and minerals and is formulated to meet the specific nutritional needs of infants.

The first infant formula was developed in the late 19th century and was made primarily from cow's milk, which was modified to make it more similar to human milk. These early formulas were often criticized for their lack of essential nutrients and for being difficult to digest for infants.

In the 1950s, infant formula began to include more synthetic ingredients, such as corn syrup and vegetable oils and began to be fortified with vitamins and minerals. These changes made the formula more nutritionally complete, but it still was not as good as the breastmilk.

In the 1960s, formulas started to be made with hydrolyzed proteins, which have been broken down into smaller pieces. This made it easier for babies to digest the formula and reduced the chances of allergies.

In the 1970s, concerns about the safety of formula began to arise, as it was discovered that some brands were contaminated with

harmful substances, such as melamine. This led to stricter regulations for the production and labelling of infant formula.

In the last decade, a growing demand for organic, non-GMO, and plant-based infant formulas made from soy, almond, or rice milk has been growing. There has also been an increased focus on using ingredients closer to breast milk, such as human milk oligosaccharides (HMOs).