



PORTFOLIO OF **INDUSTRIAL LINE**



FSSC 22000  
HALAL  
ISO 9001  
KOSHER  
SEDEX MEMBER

**MEET  
OUR  
SOLUTIONS**



**Tereos**

## Our MISSION

The Tereos Group is committed to tackling the future challenges in food, energy, and health by fully valorization of raw materials of plant origin, ensuring business opportunities and the best possible returns for its members.



Tereos processes a variety of raw materials to manufacture a wide range of value-added products, meeting the demands of the food, beverage, animal nutrition, pharmaceutical, cosmetics/personal care, and industrial sectors.

Tereos is the only player with such a broad and complementary product portfolio. Combined with its expertise in reformulation and connection with consumer trends, Tereos expands its options to meet market demands!

## Our FIGURES

5

processed  
raw material



Beetroot



Wheat



Corn



Alfafa



Sugarcane

10.700

cooperative  
farmers in France

15.800

employees  
around the world

43M

of tons  
of raw material  
processed

€ 7,1B

euros  
in revenue

## TEREOS AROUND THE WORLD



41

industrial  
plants



Operations  
in countries

15

### AMERICA

- 7 industrial plants
- Countries: Brazil and USA

### AFRICA AND OCEANIA

- 5 industrial plants
- 1 R&D center
- Countries: Reunion Island (France), Kenya and Tanzania

### ASIA

- 1 industrial plants
- 1 R&D center
- Countries: India, Indonesia, Singapore and Vietnam

### EUROPE

- 28 industrial plants
- 1 R&D center
- Countries: Germany, Belgium, Spain, France, Italy, United Kingdom and Czech Republic



# WE ARE **TEREOS**

## STARCH & SWEETENERS BRAZIL

In Brazil, as the third-largest producer of native starches and syrups, we provide our clients with a wide portfolio for the most varied applications from the processing of corn and wheat.

We have been in the starch market since 2011 when the factory in Palmital, a city in the state of Sao Paulo, was acquired.

Tereos Starch & Sweeteners Brazil works to transform its raw material into high-quality ingredients and offer a diversified portfolio to its clients.

### **WE HAVE A DIVERSIFIED PORTFOLIO TO SERVE A VARIETY OF MARKETS**

#### **INDUSTRIAL**

Non-food, mainly paper and corrugated cardboard, Wood agglomerates, civil construction, and the textile industry, as well as other markets we operate in such as cosmetics, soaps, mining, chemical and agrochemical industries, pharmaceuticals, home care, and fertilizers.

#### **FOOD AND BEVERAGES**

We operate in the food and beverage markets focusing on applications in beers, bakery, sweets and candies, as well as sauce, powdered soups and broth cubes" e "cured meat" trocar por "meat products.

#### **ANIMAL NUTRITION**

We have solutions for ruminants, pigs, poultry, fish, and even pet food.



**CERTIFICATIONS**



## **TEREOS STARCH & SWEETENERS**

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## **Tereos**

# TEREOS OFFERS A LINE OF SOLUTIONS FOR VARIOUS INDUSTRIAL APPLICATIONS



Paper  
and cardboard



Wood  
agglomerates



Constructions



Textile  
industry



Personal care  
and home care



Mining



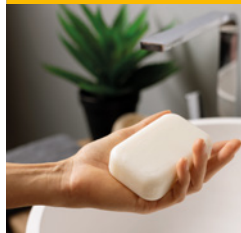
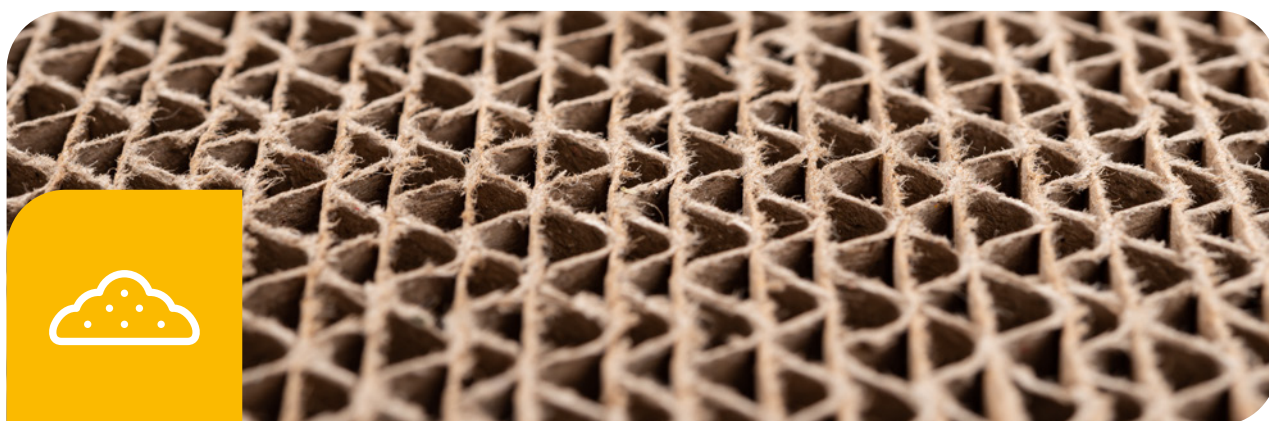
Pharmaceutical



Fertilizers



Chemical  
and agrochemical  
industry



## NATIVE STARCHES

One of the leading starch producers for decades, Tereos offers in its product portfolio regular corn starch, which is obtained through the wet milling of corn following the strictest quality standards.

### APPLICATIONS:

**Paper and cardboard:** With its high adhesive quality, due to the hydroxyl groups in its molecule, it strengthens the bond between fibers, resulting in greater resistance, smoothness, and enhanced surface and print quality. In cardboard, our starches offer crucial properties for excellent adhesion, shear stability, viscoelastic adaptation, and adhesion strength post-gelatinization, adapting to different adhesive preparation systems.

**Textile:** Used in the sizing of natural fibers, significantly reducing breakage and fiber shedding during weaving, ensuring greater strength and quality to the produced fabrics.

**Soaps:** Widely used in bar soaps, it improves foam quality and imparts hardness to the bar, making it easier to mold.

**Mining:** Used as a thickening and binding agent in ore beneficiation processes, such as in the process mineral flotation.

It also has applications in bioplastics, as its polymeric matrix provides strength and flexibility, in addition to being a biodegradable source, and in home care products, acting as a thickening and stabilizing agent, odor and moisture absorber, fabric softener, etc.

### OUR SOLUTIONS

Native  
Corn Starch  
**Meritena®**  
Food grade

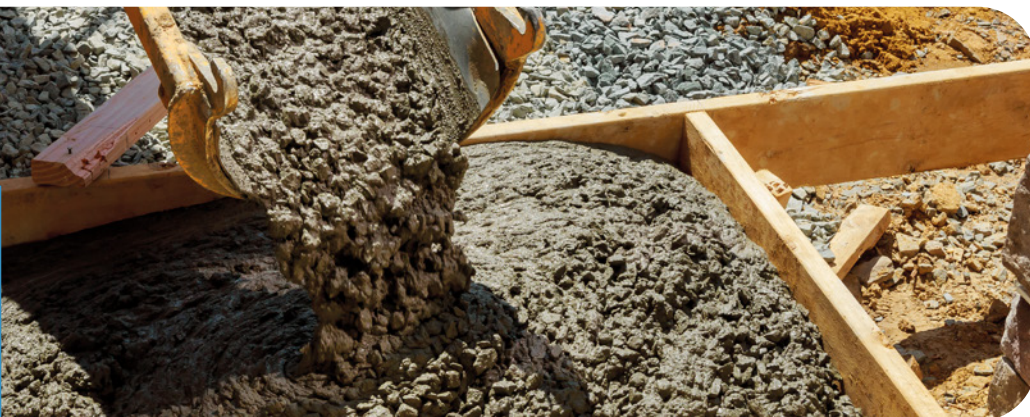
Native  
Corn Starch  
**Amyzet®**  
Industrial grade

### TECHNICAL INFORMATION

Moisture: Max 14%

Proteins: Max 0,45%

pH: 4,5 – 7,0



# CORN SYRUPS

In our line of corn syrups, we provide differentiated products with unique physicochemical properties. The biggest emphasis is on transparency, greater fluidity, and low SO<sub>2</sub>. Our products are demineralized, a process where all impurities and mineral salts are removed, resulting in a clear-colored product with greater stability during shelf-life.

## APPLICATIONS:

**Construction:** Due to its viscosity and interactions with minerals, our syrups contribute to water control in preventing cracks in tiles, also providing viscosity to lime and other calcium-rich suspensions, plasticizing paints, and contributing to mortar kinetics by delaying concrete hardening.

**Foundry:** Corn syrup plays a crucial role in foundry operations, acting as a binder in the sand mixture for molds, improving particle cohesion and strengthening the mold during the casting process of metal parts. This solution also offers a more economical and sustainable option, standing out for its availability and biodegradability compared to other conventional binders.

**Fertilizers:** Corn syrup can be used in some commercial fertilizers as an adhesive agent. Its sticky characteristic can be leveraged to improve fertilizer adherence to plants or soil. This helps to keep the nutrients in place where they are applied, preventing them from being easily washed away by rainwater or irrigation.

## OUR SOLUTIONS

**Mylose®**  
Syrup

**Glucomalt®**  
Syrup

## TECHNICAL INFORMATION MYLOSE®

% Total Solids  
81,5 - 83

Dextrose Equivalent  
38 - 40

pH  
4,5 - 5,5

## TECHNICAL INFORMATION GLUCOMALT®

% Total Solids  
81 - 83

Dextrose Equivalent  
41 - 45

pH  
4,0 - 5,5



# CRUDE CORN OIL

Our corn oil is extracted through pressing processes. It is a rich source of polyunsaturated fatty acids, especially linoleic acid, and contains vitamin E. Its versatility makes it valuable in biodiesel production, as well as having applications in the chemical, pharmaceutical, and cosmetics industries.

## APPLICATIONS:

**Biofuel:** Commonly used in biodiesel production through transesterification, a process that transforms oil into fatty acid methyl esters, with glycerin as a byproduct. This resulting biodiesel is a renewable and biodegradable energy source that can replace or be blended with petroleum diesel in engines, offering a more sustainable and less polluting alternative.

**Adjuvants:** Acting as emulsifying, surfactant, and adhesive spreading agent. These adjuvants are added to herbicides, insecticides, and fungicides, improving the adhesion, distribution, and absorption of products on plants.

**Lubricants:** Its chemical composition and physical properties allow it to be used as a base lubricant, especially in low to medium load and speed applications, where thermal stability and oxidation resistance are important. The presence of unsaturated fatty acids in crude corn oil can provide suitable lubrication properties for certain types of equipment and machinery.

**Release Agents:** Its lubricating nature and ability to form a film between surfaces can be utilized to prevent materials from sticking to molds during manufacturing.

## OUR SOLUTIONS

**Crude  
Corn Oil**

## TECHNICAL INFORMATION

Acidity: 2,5%

Total Phosphorus: 100 ppm

Lovibond Red  
(5 ¼"): 18

Lovibond Blue (5 ¼"): 3



# WE OFFER A LINE OF IMPORTED SPECIALTIES.

Tereos Starch & Sweeteners offers a wide range of products from other regions, such as Europe and Asia, all of which have the quality certifications required by the Brazilian market. These products have broad applications in the pharmaceutical, cosmetics, and even animal nutrition markets.

The line includes:



## DEXTROSE MONOHYDRATE

It is a sugar, a simple carbohydrate, obtained from the enzymatic hydrolysis of starch and is frequently used in the food industry. However, due to its important properties and functionalities, it is also widely used in the pharmaceutical, animal nutrition, and construction industries. It acts as a rapidly absorbed energy source, palatabilizer, humectant agent, and contributes to compressibility and fluidity.



## POLYOLS (SORBITOL AND MALTITOL)

Polyols have important functionalities in the pharmaceutical, cosmetic, oral hygiene, and animal nutrition segments. Besides providing a sweet taste, they possess excellent humectant properties. They help maintain the moisture of products, preventing them from drying out, and act as thickeners and stabilizers of emulsions. In the pharmaceutical field, they are widely used in formulations as excipients.



## WHEAT STARCH

Wheat starch can be used for various purposes due to its stabilizing, thickening, gelling, and binding properties. The main applications are in the food industry, animal feed production, and the paper and textile industries.

### IMPORTED LINE

Product	Brand	Origin	Raw Material
Dextrose Monohydrate	<b>Dextrose Monohidratada</b>	Asia	Corn
Dextrose Monohydrate	<b>Meritose ® 200</b>	Europe	Corn and Wheat
Sorbitol Powder	<b>Merisorb ®</b>	Europe	Wheat
Liquid Sorbitol	<b>Meritol ®</b>	Europe	Corn and Wheat
Maltitol Powder	<b>Maltilite ® P</b>	Europe	Wheat
Wheat Starch	<b>Meritena ® 200</b>	Europe	Wheat