



VALUE
CREATION
IS OUR MISSION



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SMS Group has 3 modified tapioca starch manufacturing facilities located in three provinces:

- Pathum Thani - built in 1985
- Chaiyaphum - built in 1993
- Buriram - built in 2015

SMS Group, together with its professional researchers, has put great effort on research and development of technology to add value to cassava, one of Thailand's most important revenue-generating crops.

The research and development of the SMS team has resulted in a number of innovative starches that are widely recognized in the global market. SMS's innovative starches are effectively applicable in diverse industries, thereby adding value to the agricultural product.

SMS Group generates extra revenue for the country's economy.

It is our great pride to become a Thai-national innovative company that contributes to the country's agricultural sector.

CERTIFICATIONS



RESEARCH CENTER FOR PRODUCT DEVELOPMENT

With strong commitment in developing a quality product, the company established a state-of-the-art Research Center with hi-tech equipment and advanced technology to conduct research, invent, and develop innovations for product quality improvement to meet customer demands.

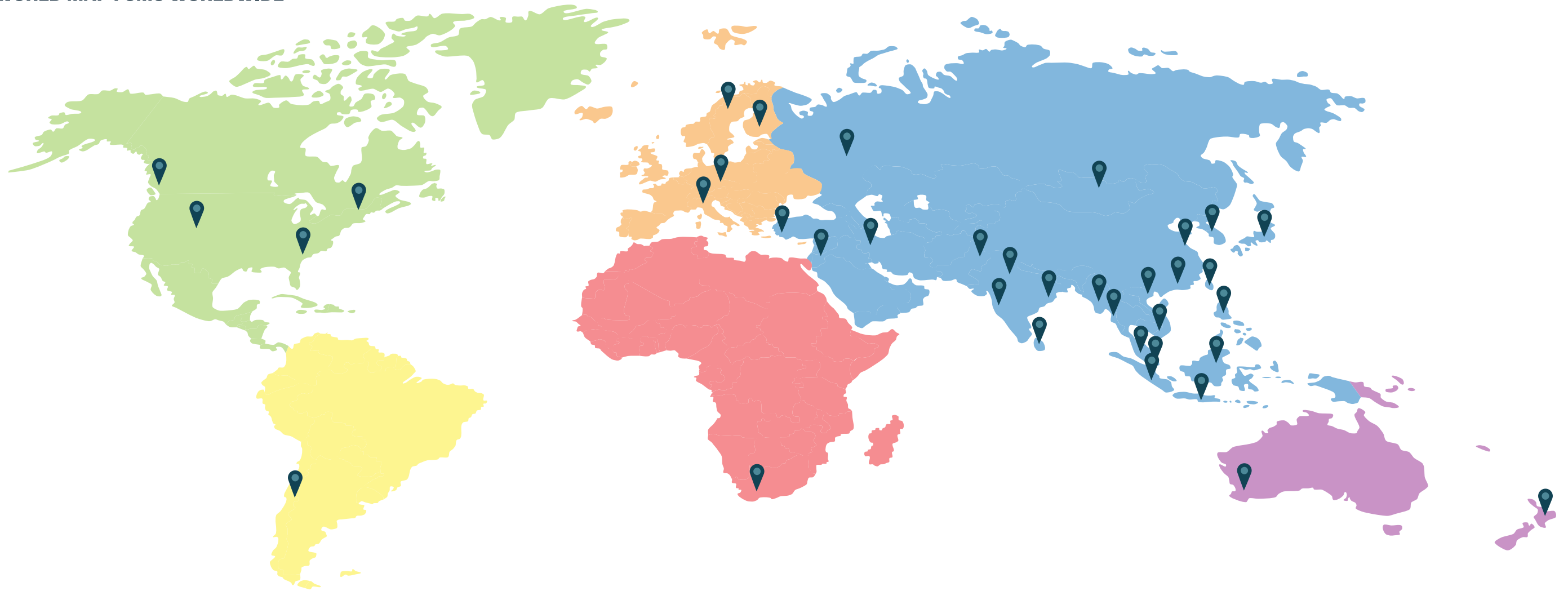
The Research Center is equipped with a group of specialists, highly skilled in starch modifying technology. The specialists will work closely with clients to share knowledge and know-how about the products and innovations.

So far, there are a number of innovations that were patented in Japan; and the company also plans to promote innovative creations to various industries in other countries.



SMS CORPORATION

WORLD MAP : SMS WORLDWIDE



MILESTONE OF INNOVATIONS





INNOVATIVE STARCHES FOR ALL INDUSTRIES

The innovative starches researched and developed by SMS are applicable in diverse industries:

- Food industry
- Paper industry
- Textile industry
- Adhesive industry
- Construction industry



INNOVATIVE STARCHES FOR FOOD INDUSTRY

Realizing the increase of customer awareness on healthy, safe, and convenient food to fit their lifestyles, the company adopted an advanced technology to develop products that meet customers' needs.

SMS's research team has devoted themselves to develop innovative starches that help improve food texture, rheology, and other properties, thereby catering to customers' particular tastes and lifestyles as seen in bakery products, batter mix, meat, soup, sauce, noodle, snacks, and frozen foods.

Every product is meticulously checked under quality control measurement in compliance with HACCP standards to deliver the best quality and safe products to customers.

INNOVATIVE STARCHES FOR PAPER INDUSTRY

The company is greatly concerned about natural resource conservation and environmental protection. Our functional and innovative starch products have been designed to enhance paper manufacturers in the reduction of water and energy consumption, more recycled paper use, higher significantly filler content, reduce petroleum-based binder in coated paper and board production.

1. For wet end application, our **EXCELCAT®** and **EXCELBOND®** series are widely accepted by the paper industry in the improvement of paper strength, drainage, and % First Pass Retention resulting in less effluent treatment.
2. For coating application, **EXCELCOAT®** and **KLIC** series function as co-binder in coating formulation, especially innovative **KLIC** series help to reduce the consumption of petroleum-based binder for coating.
3. For spraying application, SMS' special spraying starch is used to improve ply bonding strength especially core board grade production.
4. For surface sizing application, a wide range of **EXCELSIZE** series are used for high quality paper to improve paper surface strength and smoothness as well as internal strength with highest quality consistency and cleanliness.



INNOVATIVE STARCHES FOR ADHESIVE INDUSTRY

SMS's modified starches play major role in adhesive industries including:

- **SMS C300** is applied as carrier part in adhesive for corrugated board production.
- **BIOGUM®** is a superior modified starch with fast, aggressive tack, rapid set and permanent.
- **SMS GSA**, modified tapioca starches that offer suitable penetration and high bonding strength between gypsum studs and wall covering paper, resulting in excellent finished surface and back up surface.





INNOVATIVE STARCHES FOR TEXTILE INDUSTRY

SMS has developed modified starches as **SIZETEX®** for textile sizing application.

SIZETEX® functions to protect the yarn by increasing its abrasion resistance during weaving, resulting in improvement of the overall weaving efficiency.

SMS is proud to be a part to protect our environment since **SIZETEX®** could replace the use of synthetic materials like PVA and acrylic in sizing formulation. Moreover, SMS also provides products for laundry and glass fiber sizing.



INNOVATIVE STARCHES FOR CONSTRUCTION INDUSTRY

Realizing the importance of the construction industry as one of the country's revenue-generating sectors, SMS introduced the innovative starch for the construction industry development.

The **EXCELCON** is widely applied as the ingredient of mortar to enhance anti-slip property of the tile adhesive and smooth out plaster walls. The starch is also utilized in self-compacting concrete.

The company still continues to develop innovative starches for the benefit of diverse industries moving forward.



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