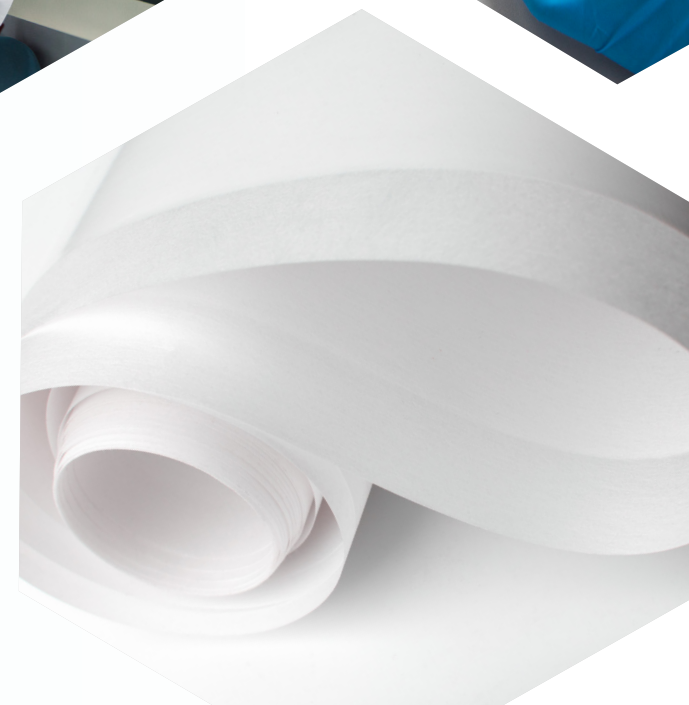
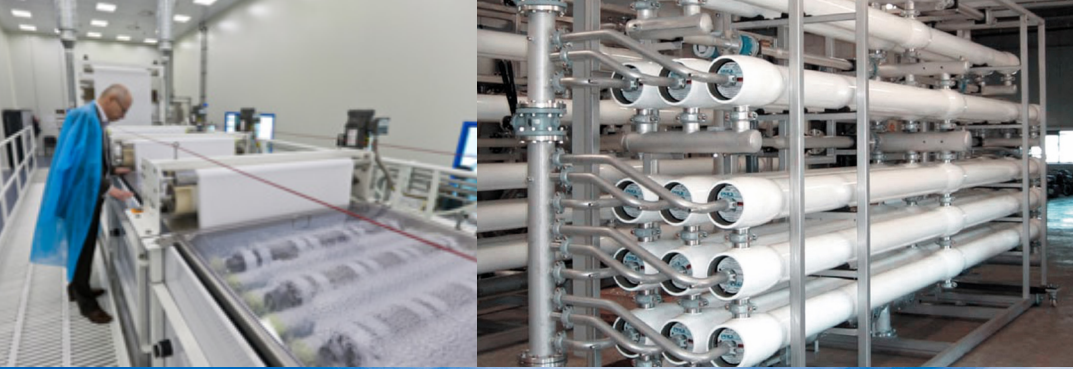




POLYMERSINTEZ GROUP

**TECHNOLOGIES OF SYNTHESIS AND PRODUCTION
OF POLYMERIC AND COMPOSITE MATERIALS,
MEMBRANE TECHNOLOGIES**





MEMBRANES

The Polymersintez Group is the Russian market leader for the development and production of new types of polymer membranes.

In 2013, in partnership with the Rusnano Group, it launched the largest plant in Europe and the most modern one in the world for the synthesis of membrane flatsheet and production of spiral wound membrane modules. Currently products are exported to 42 countries.

The Group's enterprises produce tubular membrane components for the separation of highly viscous and corrosive liquids, gas separation membranes, and modules based on them for the processing of complex gas mixtures, including hydrocarbons.

REAGENTS

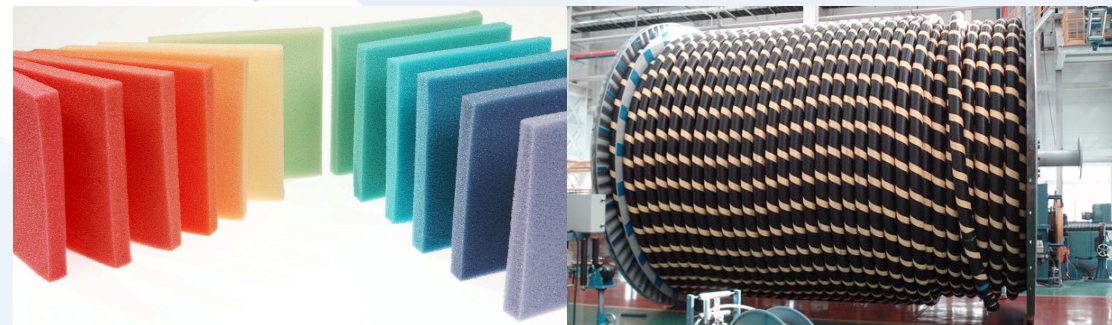
For well drilling, enhanced oil recovery, flotation processing for the separation of copper-nickel and sylvinitic ores, as well as thickeners for printing inks, water-based emulsion pigments, putties, and household chemical products.



POLYURETHANES

Polyurethane component systems are widely used in all industries.

Thermoplastic polyurethanes, which are used in the manufacturing and reinforcement of cable ducts, power plants, fuel mixture lines, seal gaskets and drive belts, and as a protective material against erosive environmental influences, make up a significant share of the consumer market.





POLYMER MICROSPHERES

In May 2018, a new production line was launched for the manufacturing of phenol-formaldehyde microspheres, which represent a unique heat-shielding material for rocket and aerospace components.

Other areas where the material can be applied include: the collection of petroleum products from water surfaces; drilling fluid additives; thermal insulation for pipelines in inaccessible places; high water cut conditions; and the Far North and the Arctic.



HEAT RESISTANT POLYMERS

Heat-resistant plastics are used in the moving parts of mechanisms where increased wear resistance, strength, and elasticity are required, including aircraft landing gear parts and shutoff valves for oil and gas pipelines.

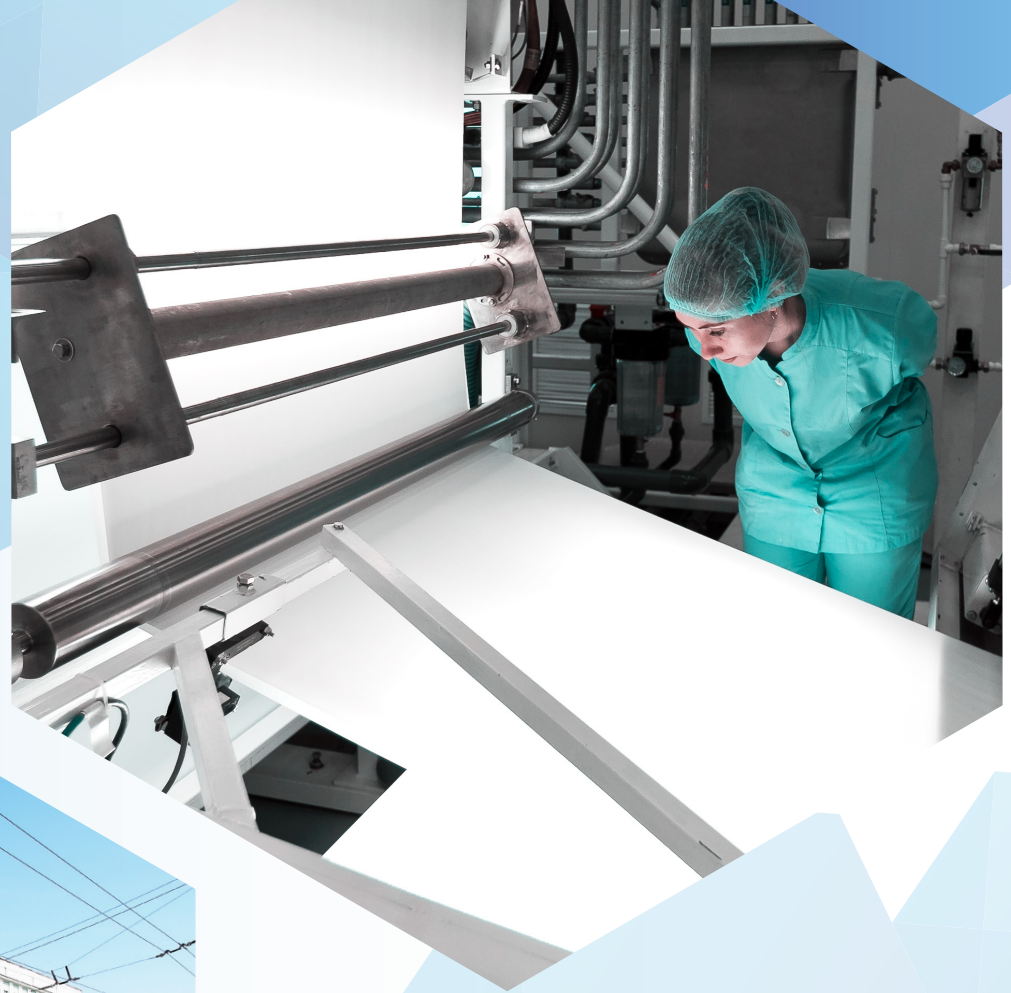
A technology has also been developed for the synthesis and production of high-strength heat-resistant para-aramid fibers (similar to Kevlar). The range of applications varies from rocket science and ballistic protection to cable reinforcement and the production of a number of composite materials with enhanced properties (heat resistance, strength, wear resistance, etc.).



ENGINEERING

Individual engineering solutions for water and wastewater treatment at industrial enterprises and institutions, including for drinking water supply.

Clean water that satisfies the specified quality characteristics is important in almost all machine-building enterprises. Particular attention is paid to the quality of the water that is used in the production of microelectronics and radio equipment. In addition to reducing negative environmental impacts, the cleaning systems in some cases can generate additional profit by recovering part of the recycled components.



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