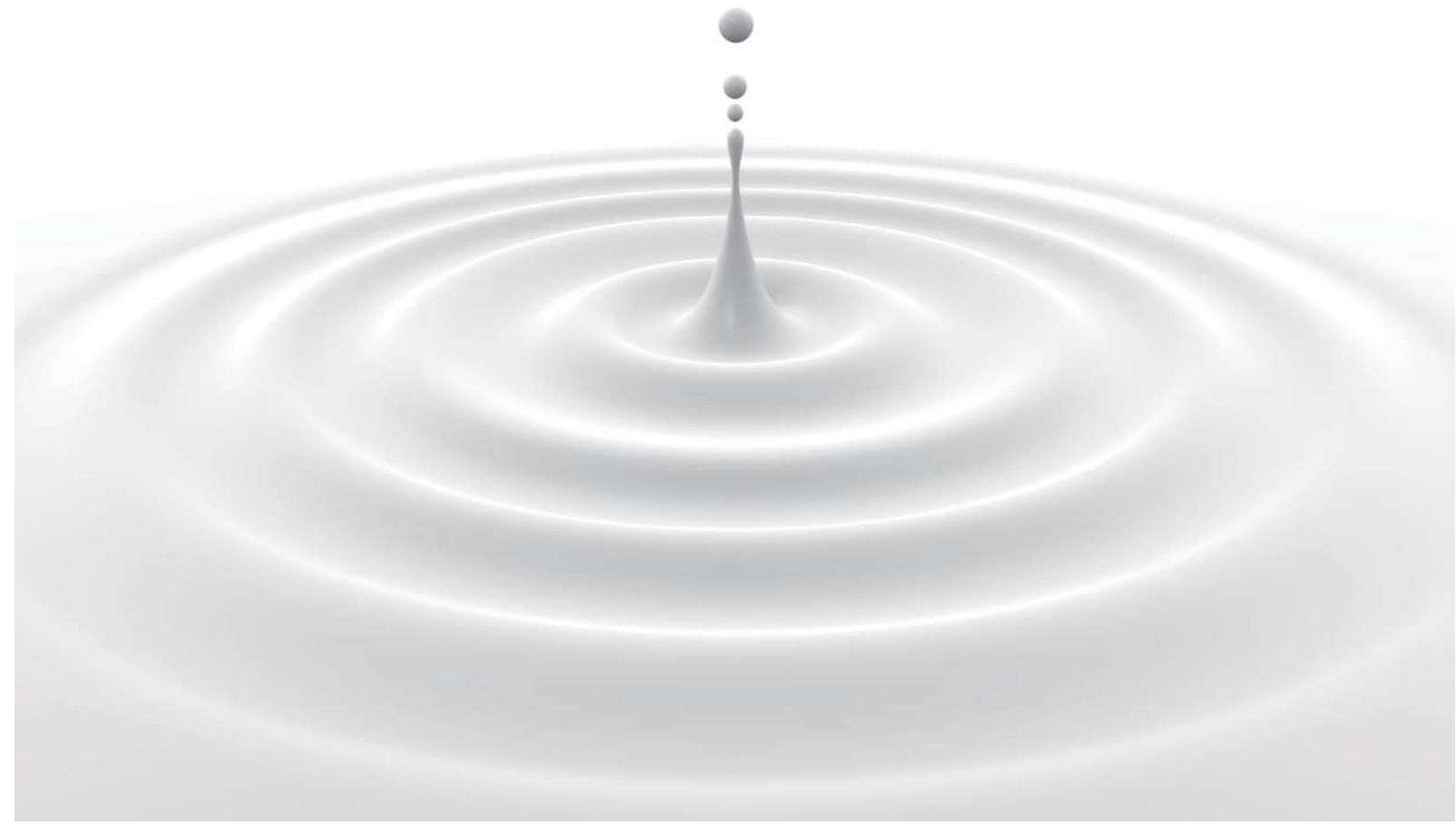


NO GOO NO LIFE

GOO CHEMICAL CO.,LTD.



GOO Chemical: Using our unique technology as a specialty chemicals company to achieve growth.

Since its founding in 1953, GOO Chemical has sought to make a difference with unique technology, working continually with a corporate spirit of mutual support and growth to refine our creative and applied technologies.

Through the development and supply of specialty chemicals, we have contributed significantly to society and human life. By focusing in particular on developing new technology, products, and systems, we work continually to develop innovative functions. GOO Chemical aims to continue pursuing new added value by anticipating market needs and satisfying them with chemical technology based on advanced polymer chemistry.

We are also committed to continuing to promote the future of human life, society, and the planet. We employ a consistent, user-centered approach to the development of high-value-added functions that combine a range of knowledge-based systems with rich creativity.



We will continue using our unique technologies to develop high-value-added products that enrich human life in the true sense.

GOO Chemical's operations center on three core component technologies: emulsification, polymerization, and photosensitization. Linked organically with a diverse range of other technologies, they are indispensable to the advancement of industry and human life.

To provide a flexible and fast response to market needs while focusing on the key themes of environment and energy, we undertake high-level product development, drawing freely on the highly specialized expertise and unique technology that we have built up.

Guiding our actions at GOO Chemical is the idea that the benefits of chemical technology need to be directed to the future wellbeing of human life, society, and the planet.



Polymerization technology

Photosensitization technology

Emulsification technology

Textiles

- Textile sizing agents
- Textile oiling agents
- Antistatic agents
- Penetrant agents

Polyesters

- Textile processing agents
- Film processing agents
- Coating materials
- Metal processing agents
- Other

Electronics

- Electronic materials
- Additives for plating
- Photosensitive emulsions
- Ceramics additives

Cosmetics

- Hair-styling polymers
- Hair care polymers
- Additives for personal cleansing agents
- Make-up polymers
- Skincare polymers

Paper-manufacture

- Varnish for glossy paper processing
- Materials for pressure-bonded cards
- Materials for picture printing on ceramics and glass

Textiles

We help to create diversified and sophisticated textiles with our unique polymerization and emulsification technologies.

Since our founding, GOO Chemical has made a major contribution to the development of the textile industry by extensively supplying the sizing and oiling agents that are indispensable to the process of creating textiles from thread.

We aim to continue contributing to the advancement of the textile industry and the apparel and industrial materials sectors and promoting the development of new materials and high-performance textiles for the next generation. By doing so, we will maintain the global provision of high-performance, high-quality products based on sophisticated polymerization and emulsification technologies.



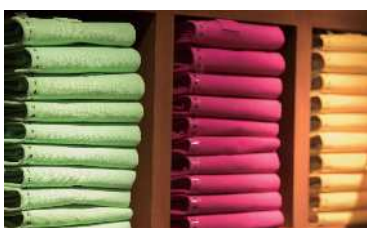
Sizing process (warping sizer)



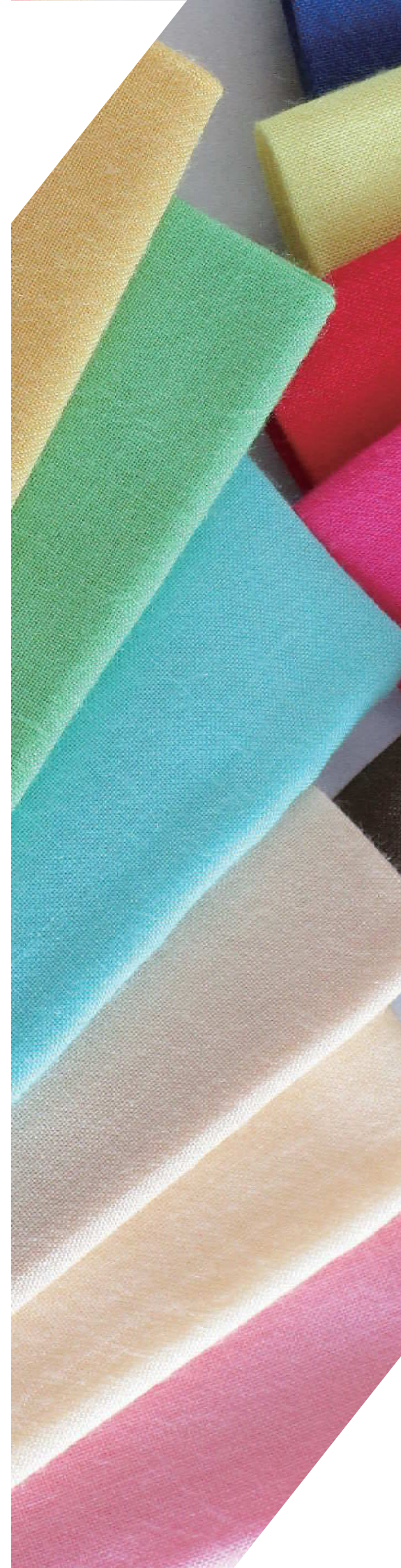
Sizing process
The thread is steeped in the sizing agent.



Weaving process (waterjet loom)
The sized thread is woven into textiles.



We contribute to a wide range of textile manufactures in Japan and abroad. Materials that we support include textiles for industrial materials and the ultrafine nylon thread textiles used, for example, in down jackets and other garment textiles.



Polyesters

We will continue contributing in a broad range of sectors, using our unique technologies to create materials that are friendly to people and the environment.

Developed through unique technology, GOO Chemical polyester resin is a water-soluble material that requires no emulsifiers or dispersants to dissolve.

It readily forms a recyclable resin membrane on polyester materials, and its water solubility makes it friendly to people as well as the environment.

It shows outstandingly close adhesion to polyester textiles, polyethylene terephthalate (PET) film, and a wide range of other materials, and is therefore used in textile processing, film processing, metal processing, paints, special inks, and other products.



Water-soluble polyester resins
Dissolves in water with no need for emulsifiers or dispersants.



Textile processing
Our polyester resin is used as a binder to adjust textural properties in the flameproof processing of materials such as curtains, roller screens, and vehicle interiors and seats.



Film processing
Employed as a coating to modify PET film surfaces and as a binder for conductive materials and other functional coatings.



Coating
Used as an aqueous coating base.



Metal processing
Employed in the surface processing of steel sheets.



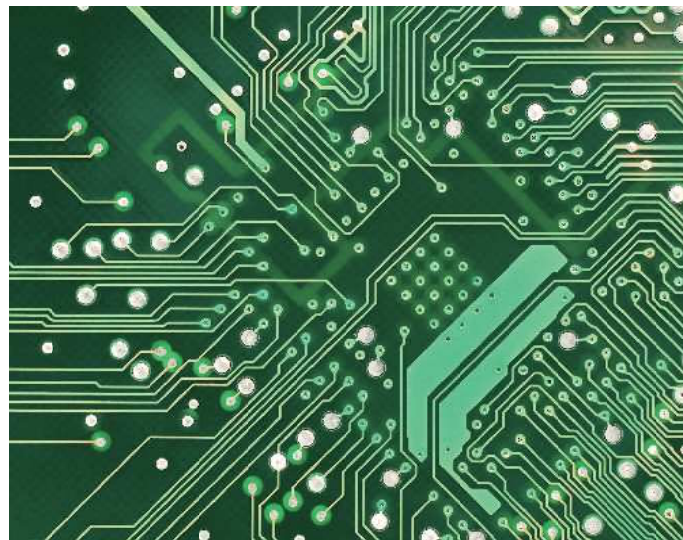
Other
Can be used inventively for a wide variety of other purposes.

Electronics

We are helping to build the electronics of tomorrow by applying our uniquely developed technology for the advancement of electronic materials and parts.

In recent years, conditions in the world of electronic materials have been undergoing major change, centered on the key themes of environment and energy conservation. As seen in the energy-saving adaptation of electronic devices as well as more compact dimensions and more high-speed operation, the special properties required of materials are constantly changing and developing.

To meet increasingly sophisticated market requirements, GOO Chemical will continue to target the new development of unique technology.



Personal computers and mobile phones
We supply etching resist for copper wiring formation on printed circuit boards (PCBs), solder masks for surface mounting, and marking ink.



Touch panels
We supply etching resist for wiring formation with indium tin oxide touch panels and clear coating.



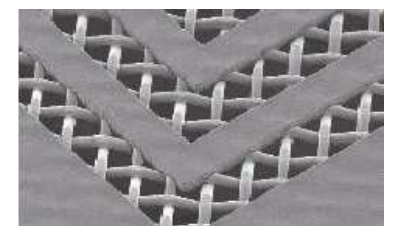
LED lighting
White ink is used to boost brightness by efficiently reflecting the light of light-emitting diodes (LEDs).



Plating processing
Our additives serve as a brightening agent in the electrolytic copper sulfate plating baths used as an underlayer for chrome and nickel plating.



Ceramic additives
Our materials are employed for green sheet formation and as a binder resin for paste.



Screen masks
Our materials help to make screen masks that are used in the manufacture of PCBs, touch panels, and solar cell panels.

Cosmetics

Our uniquely developed, high-performance polymers will continue to expand the potential of cosmetics.

GOO Chemical's resins and oiling agents for cosmetics have been used for blending with cosmetics since 1964 and are listed in official papers (Japanese Standards for Quasi-drug ingredients).

Our main focus is on developing materials for hair products, including resins used in hairspray, hair mousse, and other products, resins added to shampoo, conditioner, and other products to give particular properties, and oils blended into hair liquids and treatments. We are working to create new materials for blending with a variety of cosmetics, to contribute to the advancement of the cosmetics industry.



Hair-styling polymers



Hair care polymers



Additives for personal cleansing agents



Make-up polymers



Adhesive for false eyelashes



Skincare polymers



Paper-manufacture

We create high-value-added functions by offering unique technologies developed over many years.

GOO Chemical's unique technology endows paper with a range of functions.

Our emulsification and dispersing technologies contribute to paper surface processing and as auxiliary agents in thermal paper. Combined with polymerization technology, they can be used for glossy paper processing and to endow paper with special functions of bonding, adhesion, and re-peelability.

In response to diversifying needs, as chemical science advances, we will continue to offer materials that enhance the added value of paper.



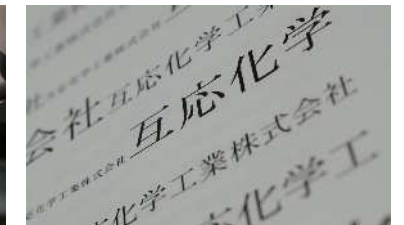
Agents related to paper manufacture



Varnish for pressure-bond processing



Varnish for glossy processing



Chemical agents for thermal paper



Binder-oils of pigments for decal printing onto ceramics and glasses



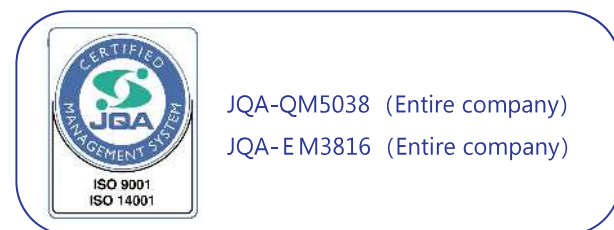
Cover-coating resins for decal printing onto ceramics and glasses



R&D, production, and quality control: A three-in-one system for rapid response based on specialist knowledge.

R&D, production, and quality control come together in dedicated manufacturing activity to ensure customer confidence and satisfaction.

We identify potential needs, create solutions with unique technology, and apply stringent control to deliver stable products.



Research and Development



Rich creativity for a brighter future. Exploring limitless potential with unique technology.

Taking the emulsification, polymerization, and photosensitization technologies it has developed thus far, GOO Chemical combines and refines them even further, to explore potential in a wide range of sectors. Never satisfied with the status quo, we target creative product development through an approach that continually seeks new challenges.

Production



Toward ever greater reliability with a record of safety and achievement.

GOO Chemical operates production bases at its Head Office Factory (Kyoto), Fukui Factory, and Shiga Factory. Drawing on basic technologies in emulsification, dispersion, synthesis, polymerization, polycondensation, and coating, we work every day to achieve quality improvement.

Based on the safety-first principle, we work with our production control department to achieve higher-quality and environment-friendly manufacturing through activities such as maintenance, accident and disaster prevention, and pollution and hygiene control.

Quality control



Rigorous quality control for a reliable product supply.

We believe that GOO Chemical's reputation in technology is founded on rigorous quality control that inspires customer confidence. In each process, from receipt of raw materials through to product delivery, our employees all see themselves as specialists as they work continually to achieve uncompromising quality.

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Head Office, Research Institute, Factory



Fukui Factory



Shiga Factory


GOO CHEMICAL