



KISCO LTD.

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Providing Materials for Product Development and Manufacturing

Recognizing the wave of globalization that is sweeping the world, KISCO has set up subsidiaries in Asia, Europe and the Americas, and established a comprehensive organizational structure to support technical development conducted at customers and suppliers. With the capability to undertake everything from materials development through product manufacturing at KISCO itself, or at our group companies or affiliates, KISCO contributes to the development of numerous products that enrich people's lives playing our role as a specialist in advanced materials.

KISCO: Making a Global Contribution

Collaboration

The development of civilization has progressed in tandem with the development of materials. Through the Stone, Bronze, and Iron Ages to the modern era of new materials, our way of life has progressed in step with the materials we have used, leading to the emergence of new materials bringing innovation and change. KISCO LTD. was formed in 1921 with the aim of establishing a role as an intermediary serving our customers with access to advanced materials. Since then, KISCO has provided the foundation for new product development through corporate activities that take advantage of our experience and achievements as a specialist trading company supplying the advanced materials of each era. Nowadays, the scope of our activities extends to not only the provision of consulting services for materials selection, manufacturing processes but also to encompassing the supply of products developed by ourselves that meet the material needs of our customers. KISCO produces genuine value by providing maximum satisfaction to our customers as a broad-based provider of materials solutions that give due consideration to product quality, cost, and the environment.

For the future, KISCO intends to contribute to society by continuing to pursue the endless potential inherent in materials with the aim of "building a better tomorrow" while supporting industrial progress through collaboration with our customers.

President & Representative Director

Takekazu Kishimoto 岸本 剛一



"MITTSU NO WA (Three Rings)", a kinetic art sculpture by Takamichi Ito installed in the lobby of our Osaka Headquarters. The three rings represent manufacturers and Customers with KISCO in the center, and the way the sweeping S-shaped curves appear to rise as they rotate around the rings expresses KISCO's concept of "collaboration".

Our Business

As a specialist in advanced materials, we supply our customers with the best possible “information”, “materials”, “products”, “technologies” and “services”, and offer solutions that exhibit our forward-looking capabilities.

New materials are in demand in a wide range of advanced fields to support the commercialization of nanotechnology and other next-generation technologies, including the advanced fields such as medical technology and the exploitation of space as well as the prospering information and telecommunication industries. KISCO has kept ahead of the demands of society in its role as a supplier of materials and associated know-how.

In the future, we will respond to the ever more diverse requirements of our customers by combining our strengths in an organic way which will take us beyond our function as a trading company. These strengths include our “information capabilities” whereby we maintain an accurate and up-to-date knowledge of the latest information in the field of advanced materials, including market trends; “planning capabilities” that give us the ability to propose processes and technologies for commercializing products that take advantage of material characteristics; the “development capabilities” of manufacturing in our capacity the new materials required by the market or wider society; and the “organizational capabilities” for procurement, sales and other services covering everything from materials and processed products through to machinery.



Our five business divisions, each targeting a different specialist field, utilize general-purpose technologies to identify customer needs from a range of different perspectives and deliver optimal solutions.

Synthetic Resins

We offer solutions that turn product ideas into reality and supply materials with high added-value. These range from multipurpose resins to composite resins such as the KISLOY™ polymer alloy produced using our own compounding technology.

KISLOY™

Synthetic Resins

P12

Chemical Products

In our role as a solution provider conversant in all aspects of the industry from chemical raw materials procurement through to polymerization, synthesis, and reaction, we can establish supply chains that meet customer needs, including the supply of fine chemicals from our group companies and technology partners in Japan and abroad.

DK Ether
SANGELOSE®
DAIKALAC®
VINY SOL®

 CateProtect

Chemical Products

P14

Electronics Materials

We provide comprehensive support for the creation of “new value” by supplying nanotechnology and other new materials and technologies in the continuously evolving and advancing field of electronic product development.

 **EcoPeeler™**
EpiFine®

Electronics Materials

P16

Packaging Materials

We supply packaging that is friendly to the environment and develop and propose advanced products based on our capability of soft packaging and our own molded part designs.

Reve *Elan* エーラン
リーベ
ings *infini*
イングス アンフイニ

Packaging Materials

P18

diX Coating Services

We offer services throughout the world for adding value to customer's products by enhancing their waterproofing, insulation, biocompatibility, and other properties through the use of coatings made from the high-quality dimers manufactured by Daisan Kasei Co., Ltd.

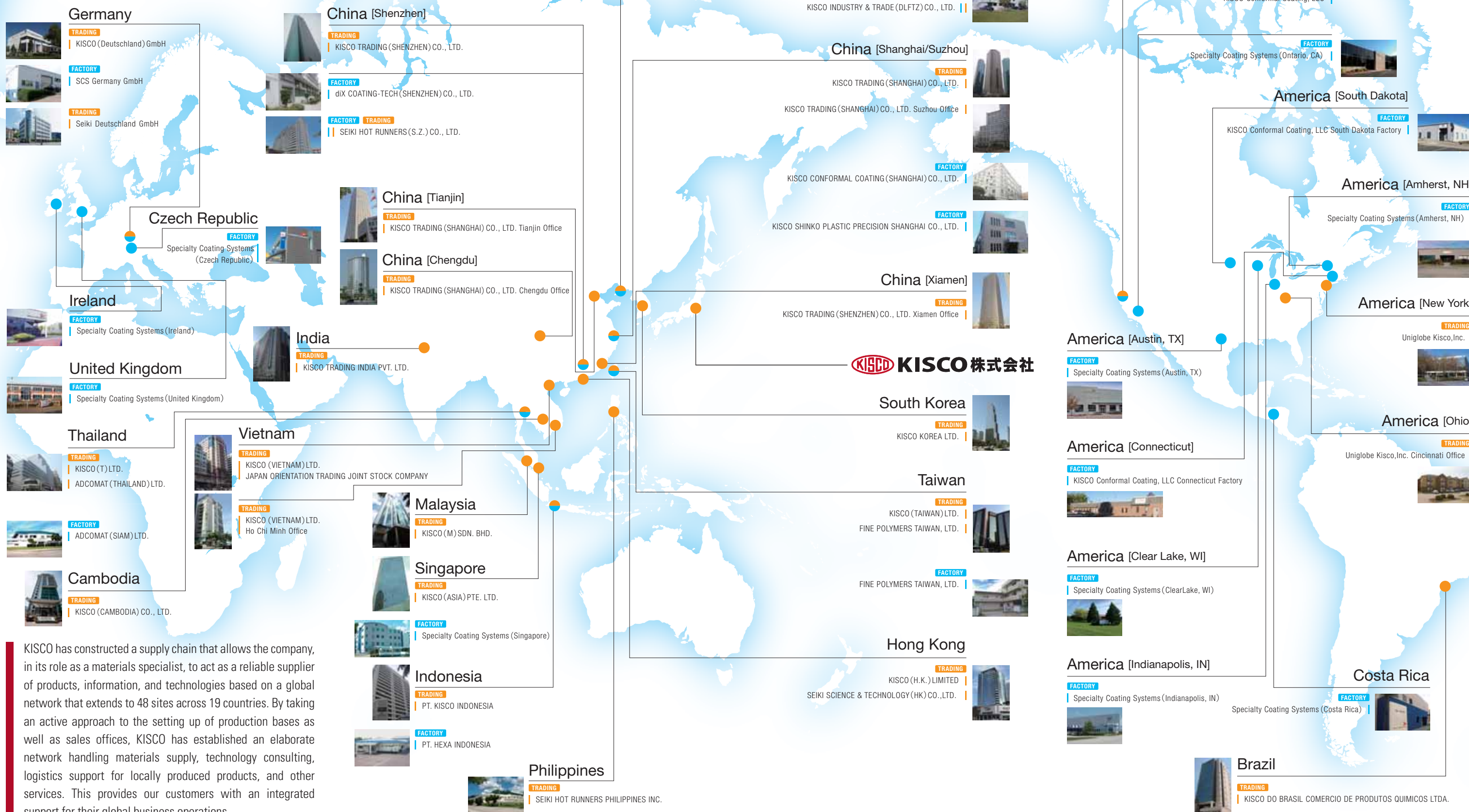
diX®

diX Coating Services

P20

Our Networks in the World

Supplying High Quality Services Globally



KISCO has constructed a supply chain that allows the company, in its role as a materials specialist, to act as a reliable supplier of products, information, and technologies based on a global network that extends to 48 sites across 19 countries. By taking an active approach to the setting up of production bases as well as sales offices, KISCO has established an elaborate network handling materials supply, technology consulting, logistics support for locally produced products, and other services. This provides our customers with an integrated support for their global business operations.

Our Networks in Japan

KISCO Group draws on its information, planning, development, and organizational capabilities to supply high-quality services.

To meet the diverse material needs of our customers, KISCO Group has sales offices throughout Japan, along with our production and processing facilities and development centers, delivering high-quality services that go beyond the typical functions of a trading company and extend from materials procurement to the supply of our own products.



Customers & Products

Synthetic Resins

Information and communications	Optical fiber cables Optical cable works Optical video units Optical modems Media converters Optical measurement equipment Manufacturing of engineering plastic products	
Home electronics/ Audio/Video	General-purpose resins Hot runner system Polymer alloys Manufacturing of composite plastics with high specific gravity Halogen-free, flame retardant, glass fiber-strengthened plastic products Engineering plastics Manufacturing of engineering plastic products	KISLOY™
Automotive	General-purpose resins Synthetic rubber Additives Hot runner system Polymer alloys Thermoplastic elastomers Manufacturing of composite plastics with high specific gravity Manufacturing of glass fiber-strengthened plastic products Engineering plastics Manufacturing of engineering plastic products	
Housing and building materials	Vinyl chloride resin Bioplastics Manufacturing of glass fiber-strengthened plastic products Polymer alloys General-purpose resins Housing interior materials Molded products Films Engineering plastics Manufacturing of engineering plastic products	
Sports/Leisure	Thermoplastic elastomers Hot runner system Polymer alloys Synthetic rubber Carbon fiber Manufacturing of glass fiber-strengthened plastic products Manufacturing of composite plastics with high specific gravity	
Fine chemicals Binding agents/ Adhesives Paint/Ink	Solvent-based adhesives Reaction-based adhesives Hot melt adhesives	Energy devices Manufacturing of insulating and heat radiating resins

Chemical Products

Fine chemicals Binding agents/ Adhesives Paint/Ink	Industrial chemicals Pigments Solvents Lubricating oils Binding agents/Adhesives Surface lubricant sheets Peroxide Alcohols Oils and fats Antiviral and antibacterial agents Stabilizers Synthesis on consignment Polymers Monomers	
Home electronics/ Audio/Video	Antiviral and antibacterial agents	Life science Functional foods and beverages
Residential construction materials	Antiviral and antibacterial agents	Energy devices
Electronic	Semiconductor polymer materials	Displays
Semiconductors	Organic thin film semiconductor materials	General foods Soft drinks
		Intermediate medicines Biopharmaceuticals Medical equipment Sesame peptide Vitamin E Extracts for seasonings Synthesis on consignment Test agents Cell culture plate Drug discovery support Herbal extracts Solid electrolytes for batteries Liquid crystals Organic EL materials Barrier films Sweeteners Extracts for seasonings Vitamins Food additives Food raw materials Inspection kits

As an advanced materials specialist, we offer the best solutions to industry's needs for chemicals, plastics, and electronics.

Electronic Materials

Information and communications	Memory media Contract production Disk publishing machines	Life science Functional foods and beverages	Silicone Silicone moldings Ultra-fine powders
Home electronics/ Audio/Video	Silicone Films Heat radiating materials Lubricants Polyimide moldings	Electronic	LED sealants Relay sealants EpiFine® Silicone Silicone moldings Ultra-fine powders Adhesives Films Heat radiating materials Ceramics Fluorescein
Automotive	Silicone	Energy devices	Functional materials for solar cells Materials for lithium batteries Heat radiating materials Ceramics Materials for rechargeable and non-rechargeable lithium batteries Ultra-fine powders
Fine chemicals Binding agents/ Adhesives Paint/Ink	Silicone	Displays	Liquid crystals Polarizers Seals Organic EL materials Heat-resistant reflective film Production equipment for FPDs Ultra-fine powders
Semiconductors	Dicing tape Super-pure silicon wafers Polyimide Compound wafers Phosphoric acid Arsenic (solid) Sealants Conductive adhesives Wrapping materials Die bonding machines X-ray machines Deaeration device Tape winders Supercritical washing and drying equipment Nano cleaning agents		Removal agents for etching residue EcoPeeler®

Packaging Materials

Life science Functional foods and beverages	Yogurt containers Dustproof covers for medical equipment Pouches for supplements Pouches for beverages	General foods Soft drinks Toiletries	Drink containers Dessert cups Containers for takeout foods Containers for delicatessens PET bottles Raw materials for packaging Laminated film Pouched products Film sheet roll Bioplastics
	Elan Ings		Reve Ings

diX Coating Services

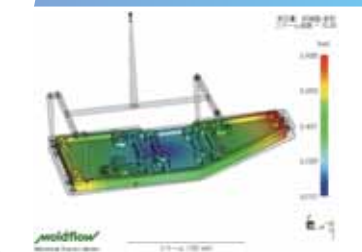
Automotive applications	[Automotive industry] For insulation, moisture-proofing, and chemical-resistance	Intake and exhaust pressure (MEMS) sensors Tire pressure sensors Hydraulic sensors Fan motors Pump motors Other electronic control devices
Electronic applications	[Aerospace industry] For insulation, moisture-proofing, and minimizing outgassing [Mobile devices] For insulation, waterproofing, and chemical-resistance [Electronic components] For insulation, moisture-proofing, and chemical resistance	Control device Aircraft cockpit displays Mobile phones and smartphones Tablets Music players Other mobile devices Chip condensers Noise filter ferrite cores Power inductor drum core Ultrasonic proximity sensors Bimorph actuator Semiconductor test equipment probes
Life science applications	[Medical equipment] For insulation, chemical resistance, slidability, and biocompatibility [Bio-devices] For chemical resistance and biocompatibility	Digital X-ray imaging and diagnostic equipment Ultrasonic diagnostic equipment Endoscopes Catheters Stents Hearing aids Pacemakers Plastic and rubber goods DNA chips Cell culture petri dishes Biosensors
Display applications	[LED displays and lighting] For insulation, waterproofing, weight reduction, and corrosion-resistance	Outdoor LED displays for concerts and other events Outdoor digital signage Corrosion-resistant LED lighting

Synthetic Resins

A global supply infrastructure complete with support systems, supplying materials, processing systems and processed products that go beyond the realm of plastics and deliver improvements in the quality of customer's products.

MATERIAL

KISCO deals with a wide range of materials including composites, synthetic rubbers, resin additives, and thermoplastics extending from multipurpose resins to engineering plastics. The additional value we deliver goes beyond the evaluation, selection and supply of materials procured from around the world, and examples can be found in our molded products that meet diverse requirements by using metal-substitute composites such as KISLOY, a polymer alloy developed by our R&D division using our own formulation.



PROCESS



Our forming technologies that transform raw materials such as rubbers and plastics into tangible products are continually advancing to produce end products that underpin modern lifestyles. KISCO is familiar with numerous forming technologies and supplies formed products for various applications. We also supply the total system required to transform concepts into products, including molds and ancillary equipment. We have set up a production line for non-homogeneous extruded products at Kisco Industry & Trade (Dalian Free Trade Zone) in Dailian, China and commenced full-scale operation.

SPECIALITY

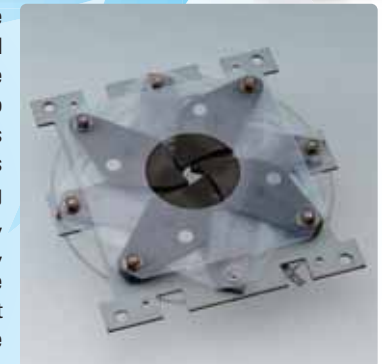
Seiki Corporation, a KISCO group company, manufactures hot runner systems that deliver an energy and raw material saving process in the plastics forming sector.

With a product range that covers diverse needs, we can offer the right product for each application so that our customers can achieve stable production over the long term through consistent high product quality.



SOLUTION

KISCO's greatest strength lies in the combination of our various individual capabilities. These include; the development capabilities that allow us to handle diverse requirements from various different fields for products such as automotive parts, housing and building materials, home electronic parts, electronic equipment parts and materials, and parts for sports and leisure goods; the responsiveness that allows us to support rationalization and improvements to the efficiency of users' production processes; and our procurement capabilities that allow us to offer the best possible raw materials from around the world.



Chemical Products

From bulk chemicals to fine chemicals, advanced coatings, and leading-edge biotechnology, KISCO's team of chemical product specialists are involved in procurement, production, and sales around the globe.

MATERIAL



Procurement of chemical raw materials has switched in recent years from dependence on domestic suppliers in Japan to a reliance on imports from China, India, and elsewhere. KISCO can call on its exclusive database and extensive global network to investigate and evaluate chemical manufacturers from around the world to procure and deliver chemical products that represent the best fit in terms of price, reliability of supply, and strategic considerations.

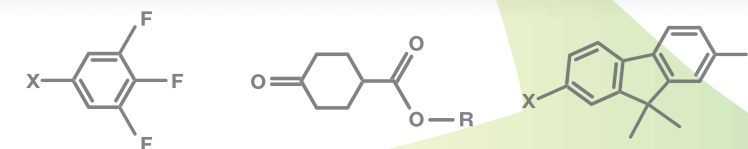


PROCESS



To supply chemical products that meet our customers' requirements, we manufacture and supply chemical products through our synthesis network in Japan and overseas. This network includes KISCO group companies. Recognizing the severity of development competition, we also have rigorous practices based on non-disclosure agreements with customers covering confidential information such as manufacturing methods and reaction products, and the transfer of technical information.

SPECIALITY



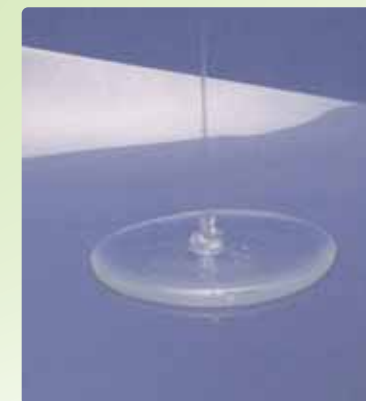
Utilizing technologies for the synthesis and refining of fine chemicals that we have honed in Japan and abroad, we supply materials that satisfy customer requirements in the specialty chemicals business for electronics, life sciences, medical, agricultural and other applications. We can offer a wide variety of products from raw materials to intermediate goods to finished products, including liquid crystals and organic EL materials and high-function coatings for the display market, and imported fluorine-containing products (a field of our strength) for the medical and agricultural chemical markets.

SOLUTION



The chemical products sold by KISCO take many different forms, including white powders, viscous liquids and granules, and are supplied as key materials to many different fields, including pharmaceuticals, liquid crystals, binding agents and adhesives, resin additives, and surface treatments.

We bring together the accumulated know-how of the KISCO group to satisfy the diverse requirements of this extensive range of products in order to create new value that did not previously exist and to make a major contribution to advancing our way of life.



Electronics Materials

The KISCO group utilizes its global network to support customers by supplying electronics materials and equipment, making us an ideal partner for incorporating technical innovation into leading-edge products.

MATERIAL

The materials handled by KISCO support the electronics industry's demand for materials ranging from silicon wafers to cleaning agents. Although the electronics-related market is characterized by the wide range of different processes that are used, KISCO maintains specialist know-how in each field. Our motto is to supply materials that meet customer needs promptly and with attention to detail based on our comprehensive knowledge of the properties of different materials.



PROCESS



In addition to supplying the latest materials and products from around the world, we have also established production sites within the KISCO group where we develop distinctive products. Fine Polymers Co., Ltd. has installed analytical and testing instruments for use in product development. The resulting products, which include the EpiFine® epoxy resin for LEDs and the EcoPeeler® removal agent for dry etching residue on semiconductors, meet customer needs and have an excellent reputation in the marketplace.



SPECIALITY

EpiFine®



In response to constantly evolving customer demands, the epoxy resin "EpiFine®" has been continuing to evolve unceasingly as well. As a single-component liquid resin for sealants and adhesives of electronic devices such as semiconductors, etc., "EpiFine®," manufactured by the Fine Polymers Corporation, is environmentally friendly with countermeasures to reduce uncuring due to separation, a low-outgassing design, and has an excellent reputation as a high-value-added epoxy resin. Further, its two-component transparent resin for sealing LED elements, which maintains its durability and gas barrier property, is a favorite of our customers throughout the world thanks to product development that enhances its value even more. "EpiFine®" will continue to evolve together with its customers into the future.

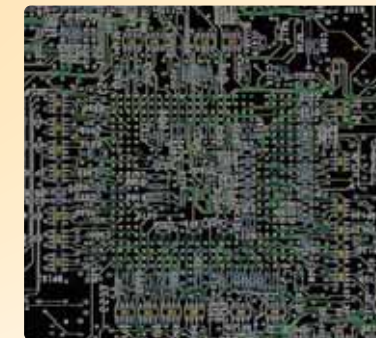


We also supply KISCO silicone lenses with excellent heat and UV resistance properties that can be produced with high-aspect-ratio shapes using our proprietary forming technology.

SOLUTION

The materials technologies and other knowledge we have accumulated over many years in the fields of semiconductors, electronic components and displays are being put to use in many rapidly advancing fields such as solar cells, energy devices and LED lighting.

Our new materials and know-how characterized by sophisticated functionality and high product quality create new value that is kind to the environment.



Packaging Materials

In a world where consumers view products with an increasingly critical eye, we support users with an extensive range of containers for food and many other substances.

MATERIAL

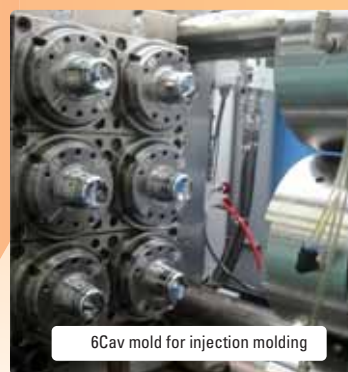
Choice of raw materials is a significant factor influencing packaging performance. We utilize the know-how we have accumulated through our long experience operating as a trading company specializing in chemical products to evaluate, select, and procure the best raw materials to achieve the functions customers require in their packaging. When you select packaging from KISCO, you are choosing the best possible materials, tracing all the way back to the raw materials themselves.



PROCESS



Injection molding machine for prototype production



6Cav mold for injection molding

With an emphasis on injection molded products, we supply sheet-formed items, blow-molded bottles and soft packaging, mainly to the food industry. We have extensive systems in place for secondary processing including in-mold labels and printing, and can offer powerful support for customer product development in the form of designs, drawings and models. Our mission at KISCO's packaging business is to utilize our proprietary production systems and technology development to supply packaging for markets throughout the world.

SPECIALITY

Our series of KISCO-designed dessert containers utilizing PP, PS, and other materials suit a wide range of uses and we have established a range of products based on customer needs.

Rêve
リーベ



Elan エ・ラン



ings
インガス



infini
アンフィニ



SOLUTION

The key concepts of peace of mind, safety, and environmental friendliness apply not only to foods but also to the packaging in which they are supplied. As well as living up to our social responsibilities for packaging, we work closely with customers to keep ahead of trends and "produce products that sell" with a product range that incorporates the latest materials and technology, and by applying sophisticated quality control to the production of our products. We can meet customer requirements with flexibility and an extensive product range that runs from general-purpose to specialty products.



diX Coating Services

Enhancing customers' products with properties such as waterproofing, insulation, and biocompatibility.

Global supply of services that enhance product value.

MATERIAL



Commonly known as Parylene, this conformal coating material is manufactured by our affiliate Daisan Kasei Co., Ltd. The production of Parylene by KISCO Group utilizes technologies from different chemical manufacturers and the product is characterized by high levels of purity and quality. It has earned a strong reputation from customers under its brand name, diX®.



PROCESS



Coatings made from diX dimer confer properties that include insulation, waterproofing, and biocompatibility. Through the analysis and improvement of equipment and processes, KISCO Group has built up its own know-how that customer products require at short notice, along with the quality service.



SPECIALITY

diX SF provides absolute reliability for the automotive and aerospace industries and for other products that are exposed to outdoor conditions for long periods of time due to its ability to withstand temperatures of more than 300°C, higher than most organic materials can cope with, and entirely resistant to degradation caused by exposure to UV rays.



SOLUTION



The production of various consumer and industrial products is shifting to emerging nations. In response to these needs, KISCO Group supplies coating services globally to meet demand from customers in locations such as China, South America, and the ASEAN region.



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