



## 20-channel ohm testers





### Key features of the product

1. Suitable for determining the normality of battery cells
2. Channels can be increased up to 40.
3. Cost reductions per channel

This miniature, lightweight ohm tester with a built-in 20-channel scanner can increase the number of measurement points up to 40 channels. This tester is suitable for the measurement of multipoint resistance values for lithium ion batteries that have several cells, as well as connectors with many measurement points.

### Solutions for our clients

The assumed customers are users that need to measure resistance values in multiple points in order to check and maintain the quality of products, such as secondary battery manufacturers, equipment manufacturers who use secondary batteries, connector and harness manufacturers, and the automobile industry. The testers reduce facility costs for resistance measurements, achieve space-saving, and shorten measurement man-hours. Moreover, since the tester has a built-in low-current power source for measuring, it does not require a connection to current source load device or an impedance meter, which makes measurement simple and easy. Measuring targets of the testers are connectors and batteries for which demand is expected to grow. These testers are helping to automate multipoint measurement.

**TSURUGA ELECTRIC CORPORATION** <http://www.tsuruga.co.jp/> [English](#) / [中文](#)    
1-3-23, Minamisumiyoshi, Sumiyoshi-ku, Osaka City, Osaka



## Thermal barrier coating agent for windowpanes (Kisan coating ATO)



### Key features of the product

1. Transmittance of visible light is the same as general glass.
2. Shields infrared light as much as possible.
3. Shields ultraviolet light as much as possible.

When the coating agent is applied to inside windowpanes, a transparent thin film is formed, which blocks infrared and ultraviolet light. The film reduces room temperature 2 to 5°C in summer and prevents indoor heat from escaping outdoors in winter, making the agent an energy-saving product.

### Solutions for our clients

We propose power-saving and energy-saving measures starting from glass. Customers can reduce cooling/heating expenses in residences, office buildings, and plants by coating our proprietary nano-metallic oxide onto windowpanes. The coating agent has good heat shielding and insulation property and blocks ultraviolet light while maintaining a bright indoor space as if no coating is applied to windowpanes.

**Kisan Kinzoku Chemicals Co., Ltd.** <http://www.kisankinzoku.co.jp/> [English](#)   
2-13-57, Nakajima, Nishiyodogawa-ku, Osaka City, Osaka



## Metal working fluids, special greases, special lubricating oils





### Key features of the product

1. Research and development of oils suitable for applications
2. Line-up centering on high-performance special-purpose items
3. Manufacturing of a wide variety of products in small quantities

Metal working fluids: Optimal oils are selected based on a combination of processing elements such as grinding, cutting, and plastic working, and material elements such as general steel, nonferrous metals, and ceramics. Slide greases: Used for electricity contact points of automobiles, consumer electronics, etc. Have the effect of contact protection, life extension, and feeling adjustment. Lubricating oils for high temperature: Used for chains of driers and biaxial tenting machines. Have the effects of reducing sludge, preventing scattering and reducing oil consumption.

### Solutions for our clients

In response to customer who "cannot procure oils suitable for processing" and "cannot obtain desired effects from general-purpose products", we develop and provide special oils to meet conditions of use, as a chemistry specialist. By making full use of the experiences and results that we have cultivated over many years and the most advanced technologies, we can make one and only products. Moreover, we can manufacture a wide variety of products in small quantities, which major oil makers find difficulty to do, and can meet customer requests based on rich knowledge and experience, and reliable development technologies.

**SATO SPECIAL OIL CO., LTD.** <http://www.satooil.co.jp/> [English](#) / [中文](#)    
1-4-17, Imafukuhigashi, Jyoto-ku, Osaka City, Osaka



## "N containers (Returnable containers)" internationally patented recycling-oriented products



### Key features of the product

1. Zero-emission and carbon offsetting
2. Can be simply folded and assembled.
3. Free design in accordance with products to transport

"N containers" have a patented structure and can be easily assembled and dismantled. Making full use of various designs, the low-cost containers can satisfy all kinds of customers. As returnable containers and packing materials, the containers can be recycled and reused so as to conduct operations waste-free.

### Solutions for our clients

We have developed our business focusing on industrial parts in a variety of fields including light electrical parts, building materials, industrial materials and communication, and pursued the creation of eco-friendly recycling-oriented products and the development of technologies. We manufacture and market niche products to extensive business categories. Because the containers are distribution-related products, they can be applied to all kinds of industries and business categories. In particular, we have made the containers usable overseas in response to recent transfer of operations overseas by businesses (by applying for and partially obtaining international patents). With the introduction of a simple lock system, the containers can be assembled and dismantled even by one female operator. The pallet-size containers can be folded and stored in less space.

**NAKAYAMA INDUSTRY CO., LTD.** <http://www.nakayama-ind.co.jp/> [English](#)  
4-10-19, Nishinakajima, Yodogawa-ku, Osaka City, Osaka

Good planning capability One-of-a-kind technology Made in Japan Trial production possible Mass-production possible

**CONTACT: Osaka Core Manufacturing Technology Network (Detailed information: P13) E-mail : monob2b@mydome.jp**



## SK pouches



### Key features of the product

1. Reduces disposal costs by space reduction after use
2. Reduces storage space required prior to filling
3. Easy to use by DIY enthusiasts

The SK pouch is a new type of sealant container that can replace the conventional cartridge and sausage packs. Compared to the cartridge the SK pouch can reduce the space required for storage and disposal. A nozzle can also be attached so that tools are easily cleaned after use compared to the sausage pack. The SK pouch is a patented product.

### Solutions for our clients

For users of sausage pack materials:

Sausage pack users benefit from the space and waste reduction features of a soft pack but often the use of the sausage pack can be messy. Tools and hands can easily be contaminated by the materials inside the sausage. The nozzle attachment on the pouch pack helps reduce the contamination and therefore reduces the cleaning up process after use. For large quantity users:

In places where large amounts of sealant are used the amount of waste created by packaging is of great concern. The pouch pack greatly reduces the space required for waste and therefore the cost of disposal.

SHARP CHEMICAL IND. CO., LTD.

<http://www.sharpchem.co.jp/> [English](#) / [中文](#)  
13-12, Chikkohamaderanishimachi, Nishi-ku, Sakai City, Osaka

ISO 9001



## Coating and laminating of all kinds of films and metal foils



### Key features of the product

1. Conductive high polymer-based antistatic films
2. Hard coating for touch panels
3. Coating on metal foils made of stainless steel, nickel, etc.

A conductive high polymer is mainly used as protective tape for transporting LSIs. Hard coatings are used for white boards and other touch panels, while metal foils are mainly used for promising applications such as fuel cells.

### Solutions for our clients

We have been engaged in all kinds of coating and laminating for Class 1000 clean environment for many years. Because we can perform a series of processing steps from pretreatment (corona discharge treatment) to coating to slitting all in-house, we have customers in various industries such as the chemical and printing industries. We can process various kinds of products from plastic films to metal foils. Moreover, by processing within a Class 1000 clean environment, we can provide clean high quality products such as films for touch panels.

Asahi Chemical Co., Ltd.

<http://www.asahi-chemical.co.jp> [English](#)  
2-33, Shindennishimachi, Daito City, Osaka

ISO 9001



## Integrated recycling system of PET Products made from Post consumer PET bottles.



### Key features of the product

1. Reliable and safe recycled PET product
2. Traceability and quality control system
3. Wide and plentiful product line up

It is important to ensure safety and security in recycling. Our Integrated recycling system of post consumer PET bottles has acquired certification under the Global Recycle Standard (GRS). We can provide various kinds of PET products made from post consumer PET bottles such as PET resin (pellet), solid state polycondensation products, sheets and moldings (for fruits, vegetables, egg containers and containers for industrial use).

### Solutions for our clients

1. We provide products recycled from PET bottles ranging from flakes to pellets for synthetic fiber, sheets, cut boards, and moldings such as food containers and industrial part containers.
2. We can be contracted to process customer materials (PET material) into pellets.
3. Our materials (recycled PET pellet) and its products can be safely used because it has obtained the approval (No Objection Letter: NOL) from the U.S. Food and Drug Administration as a material that allows direct contact with food.
4. Our Sennan Factory is authorized by Sony Corporation as a Sony Green Partner.

Utsumi Recycle Systems Inc.

<http://www.utsumi-k.co.jp/> [English](#)  
Taniyon Square Bldg., 1-2-15, Uchihonmachi, Chuo-ku, Osaka City, Osaka

ISO 9001



## "DICERO" hard coat films



### Key features of the product

1. Highly transparent and high quality hard coat films
2. Diversified range of base materials such as PET and isotropic films
3. Grade in combination with adhesive layer is available.

DICERO is a hard coat film of high transparency and high quality. The thickness of the base material can be controlled from 50 to 188  $\mu$ . Moreover, the types of base materials include not only PET but also grades of polycarbonate with good optical isotropy and acryl, as well as materials with adhesive on one side.

### Solutions for our clients

We are the top maker of diffusion films for LCDs. We have advanced optical technology and production technology that meet rigorous quality standards, and provide high quality products. The hard coat films are heavily used in the field of touch panels, and often used with LCDs at the same time. PET-based general products cause the problem of Moire patterns when looking through polarized sunglasses. Our isotropic film-based hard coat films have solved such optical problems.

KEIWA Incorporated

<http://www.keiwa.co.jp/> [English](#)  
1-2-5, Kamishinjo, Higashiyodogawa-ku, Osaka City, Osaka

ISO 9001

ISO 14001

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CONTACT: Osaka Core Manufacturing Technology Network (Detailed information: P13) E-mail : monob2b@mydome.jp



## WOODUM table mats



### Key features of the product

1. Fragrance and feel of natural wood
2. Good waterproofing and antifouling properties
3. No warp makes mats stable on flat surfaces.

This placemat uses flexible resin-impregnated wood veneer sheets (Tennage / world-patented). WOODUM has a variation of 10 wood types and 5 sizes. Although natural wood is used, the revolutionary table mats neither warp nor curl. Unlike conventional products, the placemats give users the fragrance and texture of wood.

### Solutions for our clients

WOODUM placemats can be used as luncheon mats at home and in restaurants. The placemats can be also used for displaying vases and small objects on them, enabling a stylish presentation. Because any kind of natural tree can be commercialized, users can choose a tree that is suitable for the season, country, and local community. We utilize lumber from thinning and mill ends in order to contribute to an eco-society.

ZEROONE PRODUCTS CO., LTD. <http://www.zeroone-pro.com> [English](#)  
Suehiro Bldg., 3-6-14, Ueshio, Tennoji-ku, Osaka City, Osaka



## Phosphorus flame retardant



### Key features of the product

1. Suitable for strengthening fire safety standards and flame-retardant standards
2. Meets non-halogen needs.
3. Optimal as a substitute for bromine fire retardant

Our phosphoric acid ester-based fire retardants are compatible with m-PPE, PC/ABS, PU, PVC, etc. They are particularly used for m-PPE and PC/ABS in consumer electronics such as LCD televisions and office equipment, PCs, copiers and printers.

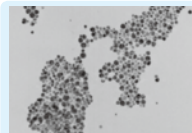
### Solutions for our clients

The assumed customers of our phosphorus flame retardants are compounders. Condensed phosphoric acid ester flame retardants have superior hydrolysis resistance, compared with other phosphorous flame retardants, have lower volatility and generates less gas in resin treatment, they can reduce contamination of processing machines and mold corrosion. In addition, they are eco-friendly as they generate no dioxins when the resin is combusted. You can use our non-halogen-type products in stead of brominated flame retardants that have been ever used for poly-ester, nylon, ABS and so on. Since we also produce phosphorus rare metal extractants, separate and refining makers are also our assumed customers.

DAIHACHI CHEMICAL INDUSTRY CO., LTD. <http://www.daihachi-chem.co.jp/> [English](#) [ISO 9001](#) [ISO 14001](#)  
1-8-13, Hirano-cho, Chuo-ku, Osaka City, Osaka



## Manufacturing nano-size metal particles



### Key features of the product

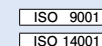
1. Commercialize metal particles 10 nm in diameter.
2. Can synthesize large quantities via liquid phase synthesis.
3. Nano-particles make low-temperature firing possible.

We have succeeded in producing these nano-particles based on a proprietary liquid phase particle manufacturing process, which was developed jointly with the Osaka Municipal Technical Research Institute. Metals, from which we can produce nano-particles, include silver, gold, and copper. Nano-size metal particles are expected to pave the way for high density electrodes, joining via alternative solder metals, and water-free processes using the particles as alternatives for plating.

### Solutions for our clients

We have manufactured and marketed metallic paste for firing electrodes and plating solution. There is increasing demand for micro wiring for electrodes, and the paste using these nano-size metal particles are suitable for such wiring. With the widespread use of hybrid vehicles and electric vehicles, nano-size metal particles are attracting attention in applications for joining high current electrodes. Studies into nano-particle paste has been under way for some time. Moreover, because coating films made with these nano-particles have a texture that is close to plating, it is possible to make the plating process water-free.

DAIKEN CHEMICAL CO., LTD. <http://www.daiken-chem.co.jp/> [English](#) [中文](#)  
2-7-19, Hanatennishi, Jyoto-ku, Osaka City, Osaka



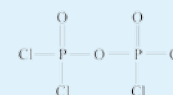
## TCPP (Chemical name: Diphosphoryl chloride [Pyrophosphoryl chloride])



### Key features of the product

1. We are the only manufacturer of this chemical.
2. We produce the chemical via an environment-conscious proprietary manufacturing process.
3. The chemical is used as a special phosphorylating agent.

We can provide phosphorylating agent of the chemical formula below.



CAS Registry Number:13498-14-1

### Solutions for our clients

Although there are various phosphorylating agents, our TCPP is an especially strong phosphorylating agent and used for phosphorylation in drug manufacturing processes. Moreover, it has been recently reported that the chemical can be used as an intramolecular acylating agent. We expect the chemical to be used for trial by drug and intermediate manufacturers that require the process of phosphorylation. In addition, the chemical can be effectively used by chemical manufacturers.

Mikuni Pharmaceutical Industrial Co., Ltd. <http://www.mikuni-seiyaku.co.jp/> [English](#) [ISO 9001](#) [ISO 14001](#)  
2-35, Kamisu-cho, Toyonaka City, Osaka

Good planning capability One-of-a-kind technology Made in Japan Trial production possible Mass-production possible



## Industrial cleaning solution (Washing machine and detergent)



### Key features of the product

1. Optimal solutions of washing machine and detergent
2. Fully custom-made solutions
3. Mechanical stability and durability with quick response

Our biggest advantage is that we can provide solutions composed of both industrial washing machine and industrial detergent. Having an equipment design department and detergent research department, we can provide the best solutions for industrial cleaning in Japan.

### Solutions for our clients

After studying and analyzing the cleaning needs and current state of customers that are troubled by contamination, cost-effectiveness, and environmental issues, which are called into question in industrial cleaning, as well as by water quality, we can propose the best detergent and washing machine. Not only with washing machine that is subject to individual order but also detergent, we will pursue the most suitable product for the customer and provide optimal cleaning. Particularly in the automobile-related industries, we have a record of delivering many products in Japan and overseas.

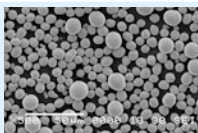
Shimada Kasei Corp., Ltd.

<http://www.ssc-shimada.co.jp/e/> [English](#) / [中文](#)

ISO 14001



## Nickel compounds, cobalt compounds



### Key features of the product

1. Highly functional materials for electronics applications
2. High purity chemicals for surface treatment
3. High active metal materials for catalysts

Using metals such as nickel, cobalt, copper, magnesium, and zinc, we have developed and provided various functional metal compounds for half a century, based on proprietary chemosynthetic technology. Moreover, utilizing the fine particle manufacturing technology that we have developed for active materials for secondary batteries, we create new functions for applications such as electronics materials, surface treatment, and catalyst.

### Solutions for our clients

To realize better electric properties in electronic materials, the size and shape of the materials and the combination of metals are important. Since fine particle manufacturing technology enables us to control the size and shape on the order of micrometers and synthesize several metals in arbitrary ratios, we can develop custom-made materials. Although the chemicals used for surface treatment require rigorous control of impurities, our chemicals are highly pure and of a chemically-enhanced purity, and, therefore, are easy to handle. Moreover, owing to their high purity, the chemicals also have high catalytic activity.

Kansai Catalyst Co., Ltd.

<http://www.kansyoku.co.jp> [English](#) / [中文](#)

ISO 9001

ISO 14001



## CFRTP hybrid molding technique



### Key features of the product

1. Integral molding of continuous fiber and short fiber CFRTP
2. CFRTP can be molded into complex shapes.
3. High-strength, high-rigidity CFRTP

We can manufacture lighter-weight moldings as a hybrid of continuous fiber that has high strength and high modulus as its superior features, and short fiber CFRTP (carbon-fiber reinforced plastic) that can be molded into complex shapes.

### Solutions for our clients

Because of current demand for environmental measures such as low energy consumption and CO2 reduction, weight reduction has become an important key word and a required property. We can realize weight reductions via a molding technique that allows the use of CFRTP instead of metal. Moreover, we can meet market demands for better productivity and lower costs. We consider industries that strongly demand weight reduction, such as the aircraft, automobile, and mobile device terminal industries, as our market.

Ibaraki Industrial Corporation

<http://www.frp-ibaraki.co.jp> [English](#)

ISO 9001



## Pollen-release finishing agent (Brand name: Queensetter POL)



### Key features of the product

1. Prevents adhesion of powder to fiber.
2. Aids removal of powder.
3. Effects will not deteriorate even after repeated washing.

Submicron nanoparticles fill the gaps between fibers and form a anti-stick resin film. This film impedes adhesion by pollen, sand, soil and cosmetics and makes removal thereof possible by just lightly dusting the surface. And, the effects do not deteriorate even after repeated washing.

### Solutions for our clients

Immediately after we developed the agent about 11 years ago, it was used for bed sheets and quilt covers. At present, the agent is widely used for products of leading bedding and underwear manufacturers, as well as for household goods such as bath towels. Aside from pollen, the agent has also been found effective for preventing adhesion and soiling by sand, dirt, dust and cosmetics. Being a soil-resistant finishing agent that "prevents soiling and keeps fibers clean", the market for the agent has been rapidly expanding.

KOTANI CHEMICAL INDUSTRY CO., LTD.

<http://www.kotani-chemical.co.jp> [English](#) / [中文](#)

Good planning capability One-of-a-kind technology Made in Japan Trial production possible Mass-production possible

CONTACT: Osaka Core Manufacturing Technology Network (Detailed information: P13) E-mail : [monob2b@mydome.jp](mailto:monob2b@mydome.jp)





## "Eco-Mushu" odorous waste disposal packing systems



### Key features of the product

1. Seals up used diapers easily.
2. Shuts out offensive odors.
3. Contains bacteria quickly to prevent infection.

We have developed the "Eco-Mushu" odorous waste disposal packing system by applying technology for producing surface protection tape that prevents products from being damaged. The system is extensively used at the forefront of medicine and nursing. When users place used diapers into the system, it seals them up by sandwiching with adhering tape, to contain odor and bacteria. Since two strips of tape do not separate, users can safely carry used diapers to a point of disposal.

### Solutions for our clients

In the medical and nursing fields, odors are taken for granted, but the risk of infection from diapers is increasing. The "Eco-Mushu" system seals up used diapers with special tape, shutting out odor sources and simultaneously containing bacteria. Therefore, it prevents offensive odors and infection in medical sites and creates comfortable and safe environments. The "Eco-mushu" system was developed with the wish to make both those who provide nursing care and those who receive it happy.

SUMIRON Co., Ltd. <http://www.sumiron.com/english/> [English](#)  
11-9, Higashikozu-cho, Tennoji-ku, Osaka City, Osaka

ISO 9001  
ISO 14001



## Plum-charcoal paper that produces superb functions of charcoal



### Key features of the product

1. Ecological paper that uses coal made from industrial byproduct
2. Paper with deodorant function
3. Paper with humidity conditioning function

We recycle waste plum pits into "plum charcoal" and use the powdered charcoal to make "plum charcoal paper" by a proprietary manufacturing method. As a paper that contributes to LOHAS (lifestyles of health and sustainability), the plum charcoal paper is made entirely from charcoal produced from industrial byproduct (plum pits) and wastepaper, and can potentially exhibit a plethora of functions of charcoal.

### Solutions for our clients

The assumed customers are companies that seek natural materials such as textile, bookbinding, and paper coating companies, as well as trading companies that seek eco-materials. The paper has good "deodorizing" and "humidity-conditioning" effects, while also adsorbing gas and preventing fungi. Paper with charcoal characteristics can be processed into various shapes for a variety of applications including shoes deodorization, wallpaper, calendars, and boot holders.

Sanyo Paper Co., Ltd. <http://www.sanyo-paper.co.jp> [English](#)  
6-4-25, Onosato, Sennan City, Osaka

ISO 9001



## Development of new products using paper and cardboard material



### Key features of the product

1. Eco-friendly recycled material
2. We can freely make various kinds of products such as stationeries, toys, and furniture.
3. Best suited for sales promotion and gifts

We develop new products made of paper. We can create any kind of original product such as stationeries, toys, furniture, and miscellaneous goods. Customers can sell them as their products or use them as gifts or for sales promotion. We can make products completely from paper and we propose eco-friendly recycling.

### Solutions for our clients

The assumed customers are companies and organizations that need to plan and sell original products as well as methods for displaying products and promoting sales, and advertising agencies, printing companies, planning companies, design companies, and product developers. We are fully committed to designing and proposing what customers want.

Paper World Corp. <http://www.paperworld.jp/> [English](#)  
3-4-4, Uchikyuhojimachi, Chuo-ku, Osaka City, Osaka

ISO 9001  
ISO 14001



## AMT-2 desktop type twisting machines



### Key features of the product

1. Compact but can handle full-fledged ring twisting.
2. Very convenient to produce sewing thread for interlocking stitches, and original sample yarn
3. The twist number is variable from 100 to 600 T/m.

Power consumption is 75 W. The size is W300 x D400 x H600 mm. The weight is 30 kg. S-twisting and Z-twisting are changeable. The machine has four thread breakage stoppers and the full bobbin stop. The full-fledged ring twister enables increased twisting of single threads as well as doubling and twisting of two or more treads.

### Solutions for our clients

The assumed customers are knit goods manufacturers. The machine is most suitable for making threads used for interlocking stitches. When the span thread of the same color is used for interlocking stitches of high-quality knit goods like cashmere, the stitches can be clearly seen due to the difference in thread quality. By increasing the twists in the twisted thread or twisting several threads into one and using it as sewing thread for interlocking stitches, the stitches are no longer visible, which largely improves the sense of quality. With just this machine, users can upgrade products and develop original yarns, and, by doing so, differentiate themselves from other companies. Users can also reduce the time required to develop new products and the cost of creating original sample yarns.

Marui Textile Machinery Co., Ltd. <http://www.marusans.com/e/> [English](#)  
2-1-15, Takadono, Asahi-ku, Osaka City, Osaka

Good planning capability One-of-a-kind technology Made in Japan Trial production possible Mass-production possible