



OHNOSHA Co.,LTD.

Fluororesin, gasket, rubber, metal processing

Greeting

Our company is a manufacturer of packings and gaskets founded in 1907. At the time of its founding, the company was manufacturing gland packing for ships. We have been developing products and technologies in line with the changing times. Currently, we are engaged in molding and processing of fluorine resin, which accounts for about half of our sales, processing of super engineering plastics such as PEEK materials and polyimides, rubber molding such as O-rings and oil seals, and high temperature processing. • We manufacture metal gaskets for high pressure, and perform precision manufacturing and sheet metal processing using laser, welding, and bending processing technologies. We deliver products to many customers by making full use of various kinds of materials such as resin, rubber, and metal. Ships, chemicals, electric power, semiconductors, food, automobiles, defense, medical, and various other industries, and our customers are about 250 companies nationwide from Hokkaido to Kyushu. We listen carefully to the needs of our customers, make proposals starting from the design of product materials and shapes, and solve problems. In the future, we will continue to work on researching new materials and processing technologies in addition to conventional products, and by solving customer problems, we will strive to improve customer satisfaction and aim for further development of the company and strive to contribute to society. We are here.

Ohnosh Co., Ltd.
President Mitsuo Ohno



Company Profile

Company Name: Ohnsha Co., Ltd.
Founding: July 1907
Established: January 1943
Capital: 30 million yen
Representative: Mitsuo Ohno, President and Representative Director
Employees: 100
Business content:

- Design, manufacturing and sales of industrial packings and gaskets
- Molding and processing of engineering plastics, mainly fluororesin
- Manufacturing and sales of metal processed products
- Medical equipment manufacturing

Certification :

- ISO9001 certification (Head office, Kobe factory, Kyushu factory)
- Medical device manufacturing license (License number: 28BZ006027 / Category: General medical devices)

Office/Factory: Head Office/General Affairs/Accounting:
5-3 Rokuhatayama Kobeso, Yamada-cho, Kita-ku, Kobe City, Hyogo Prefecture 651-1101
TEL: [REDACTED]

Sales Offices: : Tokyo, Osaka, Kobe, Kyushu

Plants: Kobe, Kyushu

Bank:

- Sumitomo Mitsui Banking Corporation Hyogo Branch
- Mitsubishi UFJ Bank Kobe Branch Shoko
- Chukin Bank Kobe Branch
- Mizuho Bank Kobe Branch

Member organizations:

- Japan Fluoropolymer Industry Association
- Kobe Chamber of Commerce and Industry
- Hyogo Industrial Corporation
- Machinery and Metal Industry Association Sasebo Chamber of Commerce and Industry

Factory information

Kobe factory

Products at the Kobe factory are manufactured under a consistent production line.

We handle everything from material development to design and manufacturing processes (raw material processing, molding processing, cutting processing) in-house.

As for manufacturing equipment, we are actively promoting factory automation by linking robots to state-of-the-art machining centers, CNC lathes, etc.

In addition, we have increased the number of our own in-house developed equipment and thoroughly streamlined our production lines. We are constantly promoting the establishment of a total system so that we can deliver more advanced products at low cost and in a short delivery time.

In addition, we take all possible measures for quality control in the manufacturing process, set our own compliance standards, and conduct strict checks in each process to deliver only products that satisfy our customers.

Location:

〒651-1101 5-3 Rokuhatayama Kobeso, Yamada-cho, Kita-ku, Kobe City,

Hyogo Prefecture

TEL: [REDACTED]

Scale : Site area 11,261m², Building floor area 5,380m²

Employees: 65

Production equipments

PTFE molding press (5 tons to 700 tons), PTFE baking electric furnace, rubber roll machine, rubber molding press, rubber baking electric furnace, gland packing braiding machine, fluorine resin welding machine, NC lathe, NC composite lathe (Okuma, Miyano, Takizawa Iron Works, Seibu Denki, Ozaki Labor Saving Machine (up to φ900), machining centers (Okuma, Fanuc), general-purpose lathes (Ikegai, Takizawa, Mori Seiki), general-purpose milling machines, 3D measuring machines (Tokyo Seimitsu, Keyence), Image measuring machine (Mitutoyo, Keyence), non-contact surface roughness measuring machine (Tokyo Seimitsu), 3D CAD, etc.

Main production items

Fluororesin products, engineering plastic processed products, gland packing, rubber molded products, etc.





Inspection system

All of our products are inspected in our inspection room before shipment.

Material confirmation, dimension inspection, and appearance inspection are performed, and if necessary, an inspection certificate is issued before shipment.

Inspections are carried out in a temperature-controlled room using a three-dimensional measuring machine, image measuring machine, surface roughness measuring machine, roundness measuring machine, etc., and the inspection records are kept for a certain period of time.



Why choose Ohnsha ?

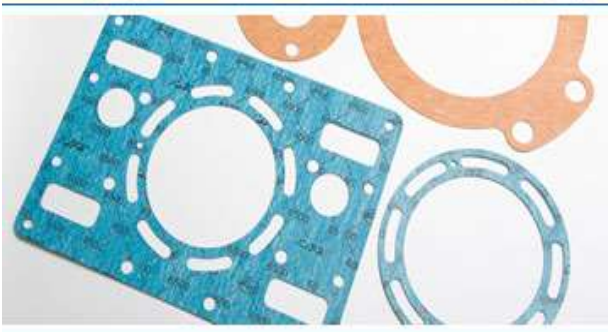
We respond to customer's requests with various technical capabilities such as molding processing, cutting processing, and laser processing from various materials such as resin, rubber, and metal .

Fluororesin • Molding processing of Engineering Plastics



The processing of fluororesin is the field in which we expertise. We also mold and process PTFE containing fillers such as glass fiber, carbon fiber, molybdenum disulfide, and bronze.

A wide variety of sealing products



We manufacture a wide variety of sealing products, from industrial packings using materials such as synthetic rubber, fluororubber, and silicon rubber, to various gaskets and gland packings.

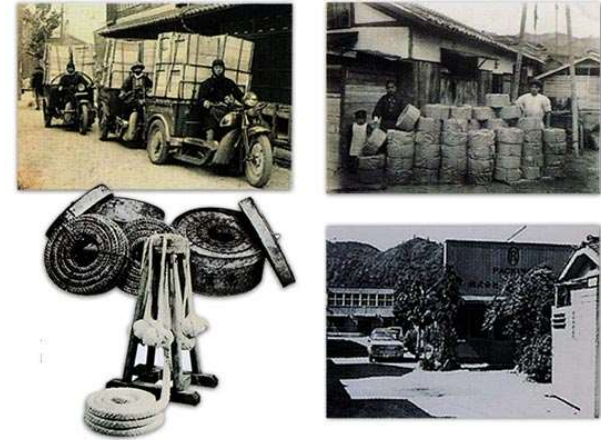
Optimal proposals that apply resin/rubber/metal processing technology

Over 100 years of technological strength and flexibility

Since our founding, we have been working on all kinds of packings and gaskets made of various materials such as resin, metal, and rubber, mainly seal products.

In addition, we have evolved and taken on challenges in various ways, such as improving our technical capabilities and developing technologies for new fields as the times change.

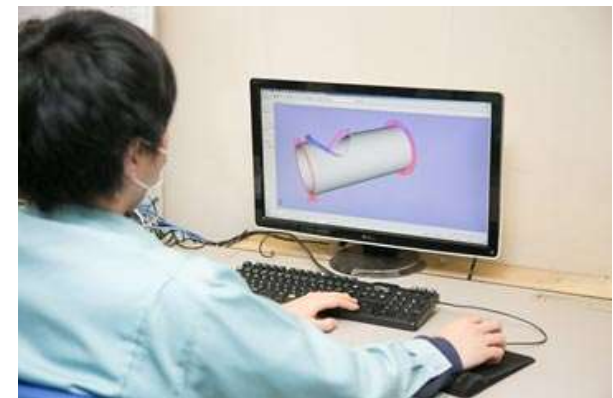
Utilizing these experiences and achievements, we are working on further improving processing technology, stable quality, and cost reduction so that we can respond to the issues and needs of our customers.



Applicability through resin/rubber/metal composite technology

We have facilities and processing technology that are suitable for engineering plastics, fluororesin, rubber, iron, non-ferrous metals, and various other materials.

By combining these processing technologies as necessary, we are able to develop highly original products, shorten delivery times, and reduce costs. We are also actively working on the development of products that require high technology.



Integrated production from raw material procurement to molding

Optimization of fluororesin molding conditions in a temperature-controlled factory

We mold fluororesin raw materials from Daikin Industries, Ltd., AGC Inc., Chemours Mitsui Fluoro Products Co., Ltd., and 3M Japan Ltd. at our own molding factory.

The processing of fluororesin is the field in which we excel most. We have accumulated a lot of processing technology and experience in fluororesin molding and processing.

Among resins, fluororesin has excellent heat resistance (regular use 260° C) and chemical resistance (excluding fluorine gas, chlorine trifluoride, and molten alkali metals), and has high electrical insulation, making it even better than all solids. It exhibits low friction and is also excellent in non-stick properties.

We are good at processing with a thorough knowledge of the characteristics of fluororesin, such as the design and manufacture of molds required for molding, dimensional accuracy, and firing conditions.



Various proposals that apply fluororesin processing

We will also propose alternatives from metal to fluororesin as necessary. We are actively pursuing the possibilities of fluororesins, including development, even in unprecedented usage methods and environments. In addition, we also manufacture seamless one-piece tanks manufactured by our unique molding method, and there is no need to worry about leaks or cracks. increase.

We also support metal inserts when molding fluororesin, making it possible to add various functions such as improved durability and strength while taking advantage of the characteristics of fluororesin. In addition, it is also possible to mold fluororesin containing fillers such as glass fiber and carbon fiber.



Processing technology after molding

We also perform processing after molding in molds and firing furnaces in-house. If necessary, we perform processing such as milling and lathes to meet various customer requests such as complex shapes and high-precision processing.

We also perform welding, adhesion, and adhesion processing of fluororesin. It is also possible to manufacture products that combine metal products from our Kyushu factory. In addition, we also carry out molding using our own molding technology, and have many processing results in cutting-edge fields such as automobiles, semiconductors, electronics, and chemistry.



Fluororesin product information

Examples of OR molding and processing products

The processing of fluororesin is the field in which we expertise. We also mold and process PTFE containing fillers such as glass fiber, carbon fiber, molybdenum disulfide, and bronze.

We perform automatic forming, hydraulic forming, welding, and welding to support a variety of uses. It is possible to form pipes up to $\Phi 1,000$.

Automatic molding

Feature

It is possible to manufacture a large number of products with the same shape. Since cutting is not required, cost effectiveness can be greatly expected. We can also manufacture PTFE with fillers such as glass fiber and carbon fiber. It is mainly suitable for manufacturing ball seats, bearings, V-rings, etc.

It is ideal for mass production and large lot production. Additional processing such as cutting is also possible.

Corresponding materials

PTFE, PTFE with glass fiber, PTFE with carbon fiber, PTFE with molybdenum disulfide, etc.

Best use

Packings, valve seats, V-rings, bearings (mass-produced products, large-lot products)



product: ball valve seat



product: V-ring

Cutting product

Feature

We mold the material suitable for the product in a temperature-controlled molding factory, and perform cutting processing with the latest NC lathe and machining center.

Fluororesin is the resin with the most drastic dimensional change among resins, but it is processed in a temperature-controlled factory, so it is possible to manufacture products with high precision. Assembly processing is also possible.

Corresponding materials

PTFE, PTFE with glass fiber, PTFE with carbon fiber, PTFE with molybdenum disulfide, PTFE with bronze

Best use

Wafer carriers, flower baskets, square tanks, comb plates, bellows, diaphragms, piston rings, slipper seals, gaskets



product name: Bellows



product name:Filled PTFE valve seat



product name:wafer carrier



product name: nest plate, gear

Thin molded products, welded products

Feature

For thin-walled products such as pipes and cylinders, and hollow products, we use a special molding method to produce materials that are close to the shape of the target product, making it possible to eliminate material waste as much as possible.

Fluororesins have a high melt viscosity and are more difficult to weld than ordinary resins, but our skilled workers based on many years of experience can perform the work.

In addition, although fluororesin cannot be adhered under normal conditions, it becomes possible to adhere fluororesins to each other and to rubber materials by performing an adhesion treatment.

It is used as a lining material for rubber materials, packaging gaskets, etc.

Corresponding material

PTFE

Best use

Cylinders, containers, pipes, wrapping gaskets



product name: PTFE cylinder



product name: PTFE welded container

PCTFE (trifluoroethylene chloride resin) processed products

Feature

PCTFE is a type of fluororesin and has a heat resistance of about 120°C (regular use), but (because it is considerably lower than PTFE), it has chemical resistance similar to PTFE that can withstand most acids and alkalis. Due to its strength and excellent dimensional stability, it is suitable for applications in the cryogenic range. At our company, we use state-of-the-art equipment to process valve seats, discs, and packings for low-temperature applications and semiconductors at factories that are temperature-controlled to the same level as PTFE.

Corresponding material

PCTFE

Best use

Low temperature valve seat, valve cock



product name: PCTFE gasket



product name: PCTFE cocks and fittin

PTFE wrapped gasket / manhole packing

Feature

Since PTFE alone has poor elasticity, it cannot be used for glass-lined flanges or low-tightening flanges. can. For large diameter sizes of $\phi 500$ or more, we can use the outer circumference welding type.

Corresponding materials

PTFE + joint sheet, fluorine rubber, synthetic rubber (core material)

Best use

Pipe flanges, manhole packing, glass lining, petrochemicals, food industry



product name: PTFE wrapped gasket



product name: PTFE manhole packing

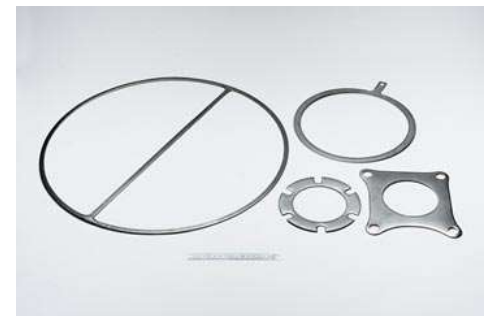
Seal products including special order products

Seal products that match the intended use and environment

Seal product processing is our core technology. Since our founding in 1907, we have worked on a wide variety of sealing products for packing and gaskets. We also manufacture seal products, including development, for a wide range of fields, applications, and environments. Applying these experiences and know-how, we specialize in designing, developing, and manufacturing not only JIS standard seal products, but also custom-made seal products that match the usage and usage environment.

Seal products of various materials and shapes

We also handle a wide range of materials, from resins to rubber and metals. We can also handle composite materials such as resin and rubber, and resin and metal. We offer a wide range of proposals, from material selection to shapes and construction methods that have functionality such as heat resistance and wear resistance according to the usage environment, and deliver satisfactory products.



Information on O-rings and molded products

Examples of O-rings and molded products

Because we process high-performance products centering on high-performance industrial sealing materials such as synthetic rubber, especially fluororubber and silicon rubber, the quality is uniform.

We manufacture products such as sheet gaskets, rollers, diaphragms, etc. using various molding and processing methods from a wide variety of materials such as NBR, CR, FKM, Q, and EPDM. We can handle a wide range of production from small quantities to mass production.

We also manufacture a wide range of O-rings, from JIS, ANSI, and other standard products to non-standard dimensions. We can handle various materials such as NBR, FKM, Q, and EPDM.

In addition, since we are consistently processing resins and metals, we have a wealth of composite technologies with rubber, which have the physical properties of rubber and can demonstrate characteristics that cannot be supplemented by rubber.

Rubber O-ring

Feature

We manufacture a wide range of products, from standard products such as JIS to non-standard dimensions.

We mainly handle FKM (fluorine rubber), but also NBR, silicon rubber, EPDM, etc.

We also manufacture slipper seals combined with PTFE backup rings.

Corresponding materials

FKM (fluorine rubber), NBR, silicone, EPDM

Best use

Slipper seal, O-ring



product name: P number, G number,
V number, non-standard products, etc.



product name: Coated O-ring PFA,
FEP + silicon rubber, fluorine rubber

Rubber molding

Feature

We manufacture products such as rollers, diaphragms, and tubes by extrusion molding of various materials such as FKM, NBR, CR, silicone rubber, and urethane rubber.

Corresponding materials

FKM (fluorine rubber), NBR, silicone rubber, urethane rubber, EPDM

Best use

rollers, diaphragms, tubes



product name: NBR, fluorine rubber,
silicon rubber, urethane, etc.



product name: Oil seal, dust seal, square ring

Rubber + PTFE composite product / rubber metal baked product

Feature

In order to solve the problems of hygiene and chemical resistance, we bake PTFE into fluororubber and silicon rubber. It is mainly used for food and chemical equipment parts.

Corresponding materials

FKM (fluorine rubber), NBR, silicone rubber + PTFE



product name:
PTFE + NBR, fluorine rubber



product name:
NBR, CR, fluorine rubber + SUS, SS

OR gland packing product information

OR gland packing product example

Our company, which has a tradition of being the first in Japan to produce gland packing, which is a sealing material for moving parts such as shafts, has developed many gland packing products.

Currently, we are only dealing with those that have been recognized for their superiority. We combine natural fibers (cotton, linen, etc.), synthetic fibers (nylon, aramid, etc.), inorganic fibers (carbon fiber, carbonized fiber, etc.) with special lubricants to meet diversified and sophisticated needs.

OR#5580/5582 Carbon fiber packing

Feature

OR#5580 is a product in which carbon fiber is braided and impregnated with PTFE dispersion, and it is a packing with excellent heat resistance, cold resistance, chemical resistance.

OR#5582 is OR#5580 impregnated with a special lubricant.

Operating temperature limit 260°C

pH range 2 to 12

Pressure 9.8 MPa



OR#5700 Carbonized fiber grease packing

Feature

OR#5700 is a braided product in which carbonized fiber is impregnated with PTFE dispersion and special lubricating oil, and is a packing with excellent chemical resistance.

Operating temperature limit 200°C

Pressure 0.98MPa



OR#8994/8997 PTFE fiber braid packing

Feature

OR#8994 is a packing made of eight 100% PTFE fibers impregnated with PTFE dispersion. OR#8997 is a packing made of 100% PTFE fiber lattice knitted and impregnated with PTFE dispersion.

Operating temperature limit 260°C

Pressure 18.6 MPa



OR#8995/8998 PTFE fiber blade grease packing

Feature

OR#8995 is a packing made of eight 100% PTFE fibers impregnated with PTFE dispersion and special lubricating oil. OR#8998 is a packing made of 100% PTFE fiber lattice knitted and impregnated with PTFE dispersion and special lubricating oil.

Operating temperature limit 260°C

Pressure 18.6 MPa



OR#2500/2510 Aramid fiber packing

Feature

OR#2500 and #2510 are made by treating Kevlar yarn with tetrafluoroethylene resin (PTFE) and a special lubricating oil for high temperatures, making it into a strand, and then doing square knitting (OR#2500) and lattice knitting (OR#2510). , has excellent durability and demonstrates its power especially under adverse conditions. It can also be used for slurry liquids and high-viscosity fluids as packing for valves.

Operating temperature limit -40° C to 205° C

Pressure 4.9 MPa



OR#7800 PTFE dispersion impregnated manhole packing

Feature

OR#7800 is a packing for hatch covers made by weaving PP (polypropylene) fibers into squares and impregnating them with OR freon dispersion. Polypropylene, which is a fiber material, has excellent chemical resistance against many chemicals. Often used as manhole packing for tank containers and tank trucks.

Operating temperature limit 80° C



OR#H100 H100-F Golden Navarone Stan Tube Packing

Feature

OR#H100 is a packing made of braided high-grade hemp long fibers that are highly refined and impregnated with a special lubricant. OR#H100-F is a packing made by impregnating H100 with undiluted solution of PTFE dispersion and braiding, impregnating with PTFE dispersion and special lubricant.

Operating temperature limit 90°C

Pressure 0.49 MPa

