

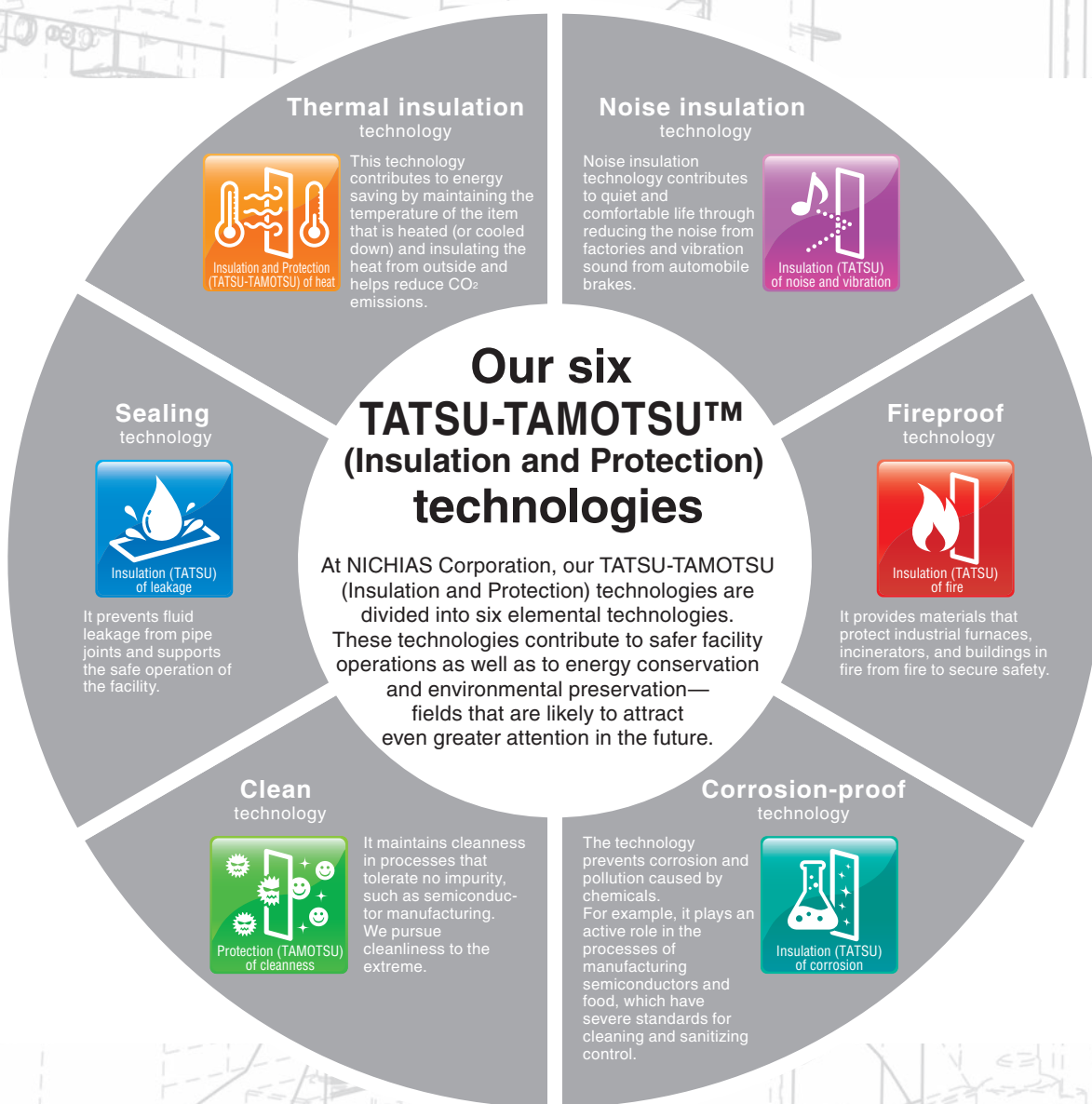
# Product Guide



# Contribute to the earth's bright future through our **TATSU-TAMOTSU™** (Insulation and Protection) technologies.

The NICHIAS Group started in 1896 as a pioneer in the field of temperature control and thermal insulation. Over our 120-year history, we've expanded our activities from basic industries such as electric power, gas, oil refining and petrochemicals, chemicals, shipbuilding, steel, automobiles, and construction to electronics, environment-related industries, and other industrial fields.

We shall continue to contribute to the earth's bright future through our TATSU-TAMOTSU (Insulation and Protection) technologies.





### About the NICHIAS symbol logo

During the Nara period, dragonflies were referred to as "akizu" and were regarded as a good omen in the Manyoshu (Collection of Ten Thousand Leaves). In those days, Yamato Province, which was the center of Japan, as well as Japan as a whole, were sometimes depicted as "Akitsushima" (Akitsushima Island). This led NICHIAS to register the "dragonfly symbol logo" as a trademark in 1923 to express its desire to reach soaring heights and to become a leading company in Japan. Since then, it has been used as a symbol logo to this day.



# NICHIAS Research Laboratory & Factory



● Tsurumi Research Laboratory

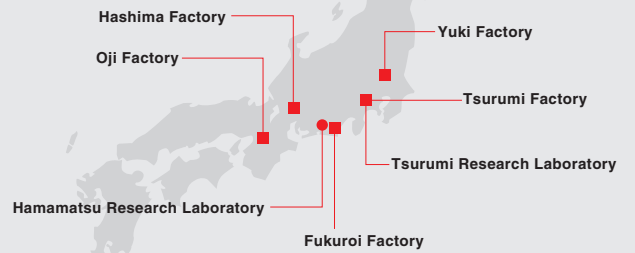


● Hamamatsu Research Laboratory



■ Tsurumi Factory

## Laboratory & Factory



■ Oji Factory



■ Hashima Factory



■ Fukuroi Factory

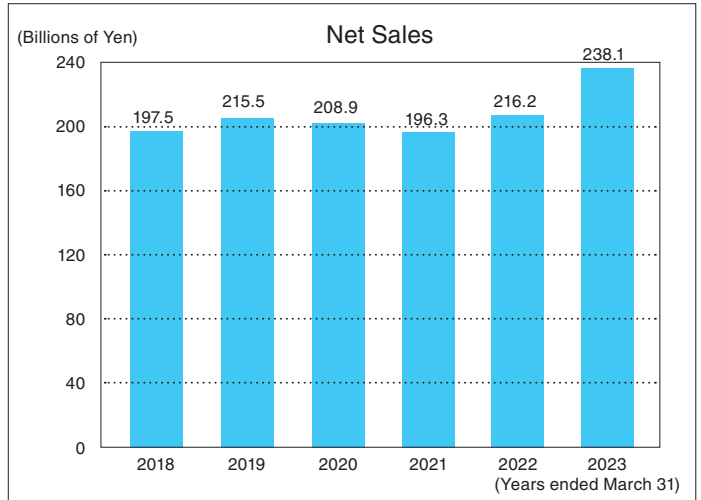


■ Yuki Factory

## ■ Outline (As of March 31, 2023)

Corporate name	NICHIAS Corporation
Founded	April 9, 1896
Head Office	6-1, Hatchobori 1-Chome, Chuo-ku, Tokyo 104-8555, Japan
Capital	12,128 million yen
Employees	6,445

## Consolidated Sales Performance



## Group companies in Japan

### ■ Sales & Construction companies

<b>NICHIAS CERATECH CO., LTD.</b> Manufacture and sale of insulation materials and building materials
<b>TOKYO MATERIALS CORPORATION</b> Sale of fluoropolymer products
<b>NICHIAS KANTO SALES CORPORATION</b> Sale of sealing materials, insulation materials and fluoropolymer products
<b>NISHI-NIPPON NICHIAS CO., LTD.</b> Sale of sealing materials and fluoropolymer products
<b>HAMAASU CORPORATION</b> Sale of sealing materials, insulation materials, fluoropolymer products and building materials, installation work of building materials
<b>NIPPON THERMAL ENGINEERING CORPORATION</b> Engineering and construction of insulation materials
<b>NICHIAS ENGINEERING SERVICE CORPORATION</b> Engineering and construction of insulation materials
<b>INOCRETE CO., LTD.</b> Engineering and construction of insulation materials
<b>NICHIAS KYUSHU SALES CO.,LTD</b> Sale of sealing materials, insulation materials and fluoropolymer products
<b>NIPPON ROCKWOOL CORPORATION</b> Sale of building materials and agricultural products
<b>NICHIAS CEMCPRETE CORPORATION</b> Sale and construction of building materials

### ■ Factories

<b>NICHIAS CERATECH CO., LTD.</b> Manufacture and sale of insulation materials and building materials
<b>SAKAI NICHIAS CORPORATION</b> Manufacture of insulation materials
<b>KOKUBU INDUSTRY CORPORATION</b> Manufacture of insulation materials and auto parts
<b>TATSUTA INDUSTRY CORPORATION</b> Manufacture of insulation materials, Filters, auto parts, and building materials
<b>OHTA KASEI CORPORATION</b> Manufacture of insulation materials
<b>NICHIAS MECHATECHNO CO., LTD.</b> Manufacture of sealing materials and fluoropolymer products
<b>NISHI-NIPPON NICHIAS CO.,LTD.</b> Sale of sealing materials and fluoropolymer products
<b>FUKUSHIMA NICHIAS CORPORATION</b> Manufacture of fluoropolymer products and insulation materials
<b>KUMAMOTO NICHIAS CORPORATION</b> Manufacture of fluoropolymer products
<b>METAKOTE INDUSTRY CORPORATION</b> Manufacture of auto parts
<b>APJ Corporation</b> Manufacture of auto parts
<b>N&amp;A TECH CO.,LTD.</b> Manufacture of auto parts

## Global Network

### ■ Sales & Construction companies

- **Indonesia**  
**PT. NICHIAS SUNIJAYA**  
Sales of sealing materials, insulation materials, fluoropolymer products, auto parts, building materials, and Engineering and insulation work
- **Malaysia**  
**NICHIAS SOUTHEAST ASIA SDN. BHD.**  
Sales of insulation materials, and Engineering and insulation work
- **Singapore**  
**NICHIAS SINGAPORE PTE. LTD.**  
Sales of sealing materials, insulation materials, Filters, fluoropolymer products, auto parts, and building materials
- **Vietnam**  
**NICHIAS VIETNAM CO., LTD.**  
Sales of sealing materials, insulation materials, fluoropolymer products, and auto parts
- **Thailand**  
**NICHIAS (THAILAND) CO., LTD.**  
Manufacture and Sales of auto parts  
**THAI NICHIAS INTERNATIONAL CO., LTD.**  
Sales of sealing materials, insulation materials, and fluoropolymer products
- **China**  
**NICHIAS (SHANGHAI) TRADING CO., LTD.**  
(龔佳斯(上海)貿易有限公司)  
Sales of sealing materials, insulation materials, filters, fluoropolymer products, and building materials  
**NICHIAS (SHANGHAI) TRADING CO., LTD. GUANGZHOU BRANCH**  
(龔佳斯(上海)貿易有限公司 広州分公司)  
Sales of sealing materials, insulation materials, filters, fluoropolymer products, and building materials  
**NICHIAS (SHANGHAI) AUTOPARTS TRADING CO.,LTD.**  
(龔佳斯(上海)汽车零部件貿易有限公司)  
Sales of auto parts  
**SHANGHAI XINGSHENG GASKET CO., LTD.**  
(上海興盛密封墊有限公司)  
Manufacture and Sales of auto parts  
**SUZHOU SHUANGYOU AUTOPARTS CO., LTD.**  
(蘇州双友汽車零部件有限公司)  
Manufacture and Sales of auto parts
- **India**  
**NICHIAS INDUSTRIAL PRODUCTS PRIVATE LTD.**  
Manufacture and Sales of auto parts
- **Czech**  
**NICHIAS AUTOPARTS EUROPE a.s.**  
Manufacture and Sales of auto parts
- **Mexico**  
**NAX MFG, S. A. DE C. V.**  
Manufacture and Sales of auto parts

### ■ Factories

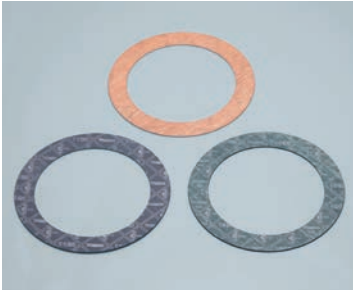
- **Indonesia**  
**PT. NICHIAS ROCKWOOL INDONESIA**  
Manufacture of sealing materials, insulation materials, and auto parts  
**PT. NICHIAS METALWORKS INDONESIA**  
Manufacture of sealing materials and building materials
- **Malaysia**  
**NICHIAS FGS SDN. BHD.**  
Manufacture and Sales of sealing materials, fluoropolymer products, auto parts, building materials, and Sales of insulation materials  
**NT RUBBER-SEALS SDN. BHD.**  
Manufacture of sealing materials
- **Vietnam**  
**NICHIAS HAIPHONG CO., LTD.**  
Manufacture and Sales of sealing materials, filters, and fluoropolymer products
- **Thailand**  
**NICHIAS (THAILAND) CO., LTD.**  
Manufacture and Sales of auto parts  
**THAI-NICHIAS ENGINEERING CO., LTD.**  
Sales of insulation materials, and Engineering and insulation work
- **China**  
**SUZHOU NICHIAS INDUSTRIAL PRODUCTS CO., LTD.**  
(蘇州龔佳斯工業製品有限公司)  
Manufacture of fluoropolymer products and auto parts  
**SUZHOU NICHIAS SEAL MATERIAL CO., LTD.**  
(蘇州龔佳斯密封材料有限公司)  
Manufacture of sealing materials, insulation materials, and filters  
**SHANGHAI XINGSHENG GASKET CO., LTD.**  
(上海興盛密封墊有限公司)  
Manufacture and Sales of auto parts  
**SUZHOU SHUANGYOU AUTOPARTS CO., LTD.**  
(蘇州双友汽車零部件有限公司)  
Manufacture and Sales of auto parts
- **India**  
**NICHIAS INDUSTRIAL PRODUCTS PRIVATE LTD.**  
Manufacture and Sales of auto parts
- **Czech**  
**NICHIAS AUTOPARTS EUROPE a.s.**  
Manufacture and Sales of auto parts
- **Mexico**  
**NAX MFG, S. A. DE C. V.**  
Manufacture and Sales of auto parts



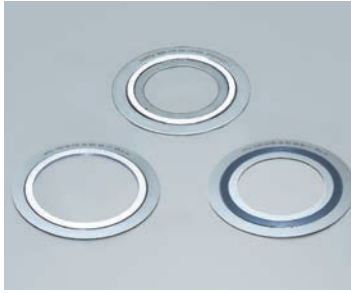
# Sealing material

A wide range of product variations is available for preventing leakage involving setups ranging from vacuums to high pressures and from extreme low temperatures to high temperatures.

## Gasket



**Joint sheet gasket**  
Sheet gasket for general piping and equipment



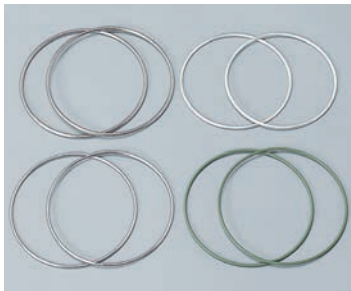
**VORTEX™ gasket (spiral wound gasket)**  
Metallic gasket that are ideal for conditions ranging from extreme low temperatures to high temperatures



**GRASEAL™ gasket**  
Expanded graphic sheet gasket with excellent heat and chemical resistance



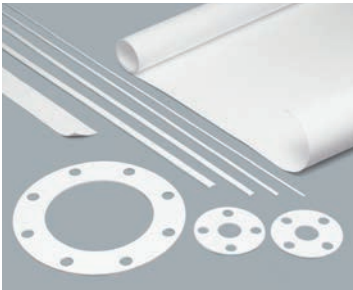
**Metal jacketed gasket and ring joint gasket**  
Metallic gasket for use under high-temperature conditions



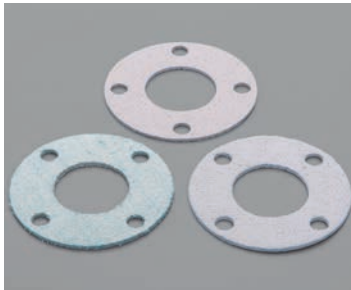
**Metal O-Seal™**  
Hollow metal O-ring for a wide variety of applications



**NAFLON™ Gasket**  
PTFE soft type gasket with excellent chemical resistance and solvent resistance



**NICHIAS SOFT SEAL™**  
Flexible, stretchable PTFE gasket with excellent chemical resistance and solvent resistance



**MANHOLE GASKET**  
Gaskets for manholes and hand-holes used for exhaust gases, hot air, etc.



**METAKOTE™ and METAFOAM™**  
Gasket made of metal coated with rubber or foam rubber for use with compressor for freezer and air-conditioner, casing for hydraulic and pneumatic equipment, and engine for small electric generator

## Packing



**Gland Packing**  
Seal packing for the shafts of various valves, pumps, and agitators as well as industrial furnaces, doors, manholes, etc.

## Rubber product



**NAFLON™ coated gasket**  
Rubber gasket for use with piping that is PTFE-coated in sections that have contact with liquids

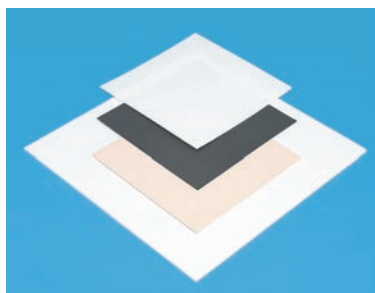


**BLAZER™ series high-performance rubber O-rings**  
High-performance rubber product with excellent heat resistance, chemical resistance, and plasma resistance

# Fluoropolymer product

Our product development takes maximum advantage of the properties of high-performance plastics, including fluoropolymers and super-engineering plastics.

## NAFLON™ material



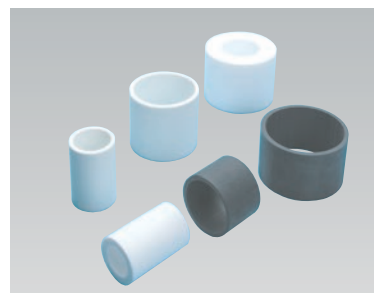
NAFLON™ PTFE sheet

Product with a wide range of applications that comes in the form of sheets made by compression-molding either PTFE alone or powdered raw material with which various inorganic fillers are mixed



NAFLON™ PTFE rod

Rod-shaped product made by molding raw powder into a specific thickness



NAFLON™ PTFE pipe

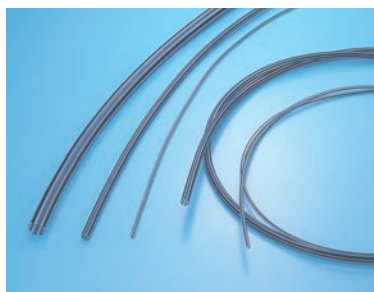
Pipe-shaped product with thick walls formed in a cylindrical shape using the compression molding method

## Fluoropolymer resin tube



NAFLON™ PFA-HG tube

Product that uses New PFA material with little fluorine ion elusion and achieves a smooth inner tube surface by controlling the higher-order structure of the PFA (miniaturization of spherulites)



NAFLON™ PFA-NE Tubes

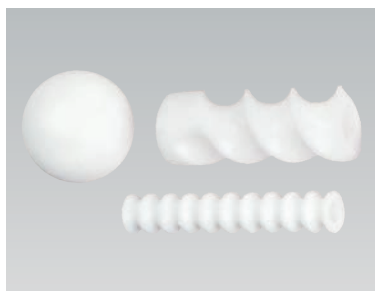
Product with electrically conductive PFA strips on the outer surface of PFA-HG tubes to prevent accidents resulting from the discharge of sparks in environments with flammable gases



NAFLON™ PFA tube processed product

Product that uses a special bending process to require fewer joints and take up less piping space

## Fluoropolymer machined product



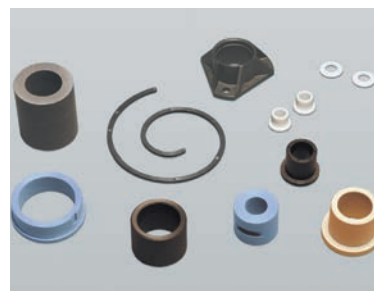
NAFLON™ machined product

Product made by cutting fluoropolymer material (PTFE and PFA) and machining it into shapes to suit various applications



NAFLON™ injection molded product

Injection molded product made from fluoropolymer and various types of super-engineering plastics



EXCELIDE™

Sliding product with excellent wear resistance and heat resistance made using PTFE, PPS, and similar material

## Fluoropolymer lining



Pipe lining

Piping material lined with fluoropolymer that have excellent corrosion resistance, purity, and heat resistance



Tank linings

Tanks lined with fluoropolymer that have excellent corrosion resistance, purity, and heat resistance



Joint and hose

Piping joint made using fluoropolymers

# Thermal insulation material

These materials take advantage of the properties of various constituents to maintain heat energy under a range of temperatures, extreme low temperatures to high temperatures.

## Thermal insulation material and heat insulation material



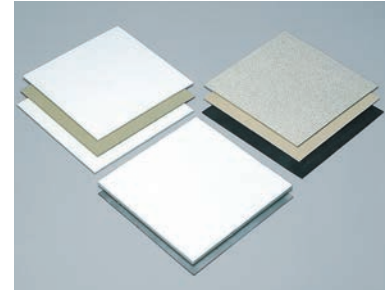
**FINEFLEX BIO™**  
(Alkali earth silicate wool)

Lining and backup material for thermal insulation of various types of furnaces as well as thermal insulation material and heat insulation material for combustors and home appliances



**FINEBLOCK™**  
(Alkali earth silicate wool and alumina fibers)

Lining material for heat insulation on furnace wall



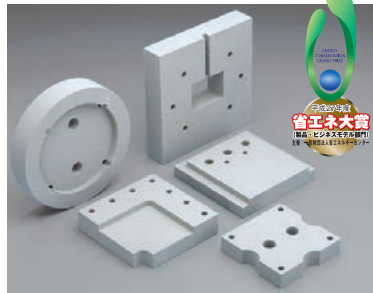
**Paper and sheet material**  
(Paper and sheet material made from alkali earth silicate wool, rock wool, vermiculite, and fluororubbers)

Heat-resistant packing material for hot water heaters and similar equipment, thermal insulation material, and joint filler for fire-resistant partitions



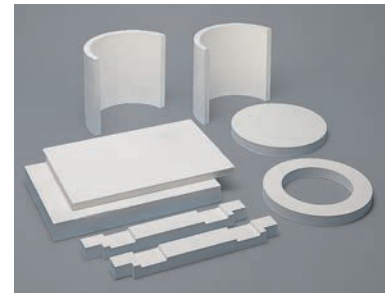
**MG product**  
(Rock wool heat insulation material)

Heat insulation material for various types of plants, office buildings, houses, and other structures



**ROSLIM™ Board GH**  
(Low thermal conductivity heat-insulation material)

Backup material for thermal insulation of industrial furnaces and melting/holding furnaces as well as thermal insulation material for combustors



**RF Board™**  
(Thermal insulation material made from alumina fiber)

Lining material for rapidly heating/cooling small electric furnaces, electronic component baking furnaces, and various types of high-temperature furnaces



**ENETHERMO™**  
(Flexible, easily removable heat insulation material)

Heat insulation material for piping, valve, heat-dissipating equipment, and precision instruments



**Textile product**  
(Heat-resistant cloth made from material such as glass, silica, alkali earth silicate wool and fibers)

Thermally insulating futon covers, heat-blocking curtains, and coating material for high-temperature parts



**HEMISUL™**  
(thermal insulation board)

Thermal insulation material for heat presses, induction furnaces, and switch boxes

## Refractory material



**CERACOVER™ S**  
(Heat retention tube coated on the outside with inorganic fiber-based felt)

Fire-proofing material for apartment kitchen exhaust ducts

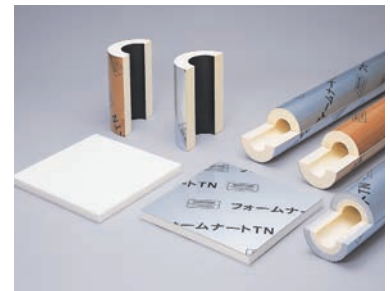
## Thermal insulation material for molten aluminum



**LUMIBOARD™** (Molded calcium silicate)  
**LUMISUL™** (Integrated molded product made from amorphous material)

Thermal insulation material for molten aluminum alloy gutter, bath, hot top ring, etc.

## Cryogenic insulation material



**FOAMNERT™ TN**

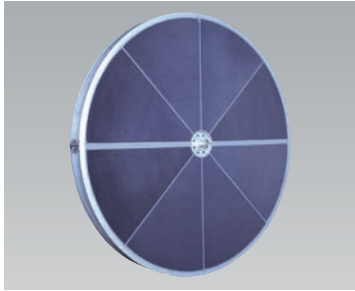
Thermal insulation material for LNG and LPG bases, ship building, petrochemical plants, and district heating and cooling



# Environmental-related product and other product

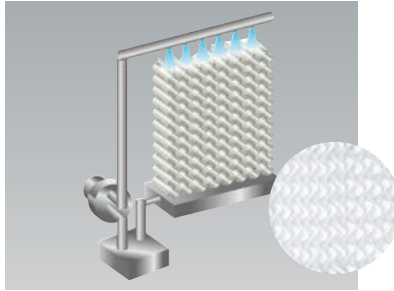
A diverse lineup of product produced based on our "TATSU-TAMOTSU"™ (Insulation and Protection) technology

## Environment-related product



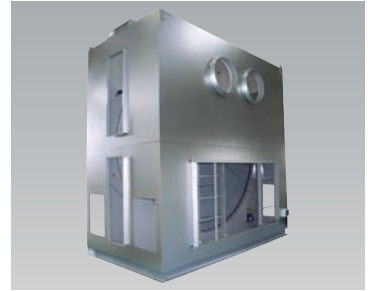
HONEYCLE™ SG

Industrial dehumidifying rotor that produces air with a low dew-point



HONEYCOMB WASHER™

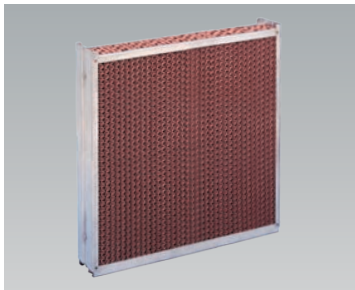
Pure water droplet chemical substance removal and vaporization-based humidifier



SOLVENTCLEAN™

(Concentrator for low-concentration organic solvent)  
Equipment that concentrates VOC emitted from factories

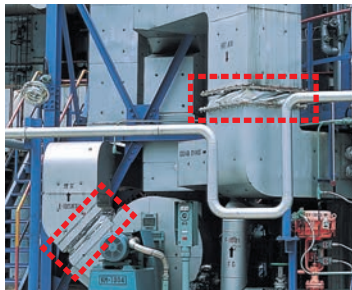
## Environment-related product



HU-CELL™

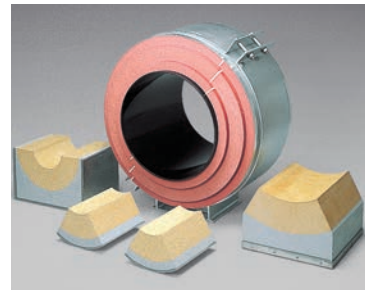
Filters for vaporization-based humidification

## Other products



BELLOW-Q™ (non-metallic flexible expansion joints)

Flexible joint for flues, air ducts, and other types of ductwork in thermal power plants, garbage incinerators, and various types of plants that offer excellent heat resistance and corrosion resistance and can absorb thermal expansion and vibration



FOAMNERT™ Support (Rigid urethane supports)

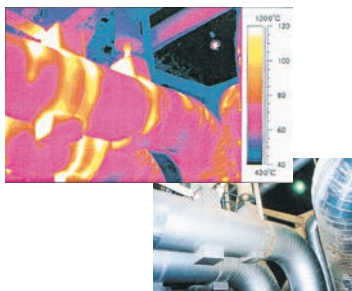
Low-temperature support for LNG and LPG piping with excellent thermal insulation, weather resistance, and mechanical strength

## Other products



Brake lining, clutch facing

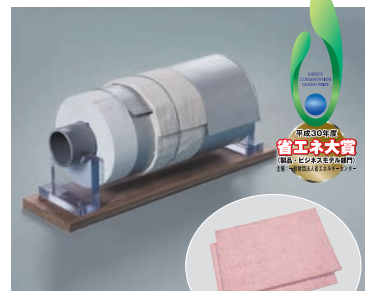
Used for elevators, moorings, windlasses, electromagnetic brakes, press brakes, clutches, etc.



Thermofit™

We use thermography to diagnose the thermal energy released into the atmosphere from boilers and similar equipment in order to propose improvement methods.

.....  
**Proposal example** We install heat insulation material such as PyrogelXTE and use "Increased Heat Retention Method" to restore your equipment's heat retention capabilities.



Increased Heat Retention™ Method (Heat retention function recovering method)

Pyrogel™ XTE has been wrapped around the equipment exterior without removing the existing heat insulation material that have lost their heat retention capabilities in order to restore heat retention capabilities.

We can handle your selection-related concerns.

We can handle urgent situations.

We can help prevent leaks.

**GASKET 工房™**

**GASKET NAVI™**      **ガスケット Lab Q™**

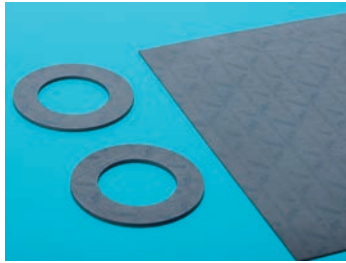
For more details, see page 9.

GASKET NAVI™, GASKET KOBO™, and GASKET Lab™  
 We provide three services for solving gasket-related problems: GASKET KOBO for timely deliveries, GASKET NAVI for selecting the proper gasket, and GASKET Lab, which consists of engineering services to assist with installation.

\* "TOMBO" is a registered trademark or trademark of NICHIAS Corporation.  
 \* Product names with TM are trademark of NICHIAS Corporation.  
 \* "Pyrogel" is a product and trademark of Aspen Aerogels, Inc.

# Featured product

Based on "TATSU-TAMOTSU"™ (Insulation and Protection) technology, we meet our customers' needs through product that support cutting-edge manufacturing.



Sheet gasket for high-temperature utilities  
**TOMBO™ No. 1155**  
**CLINSIL™ NEXT**

These sheet gasket can be used at temperatures up to 300°C. It offers high reliability for water, oil, steam, and other utility-related uses.



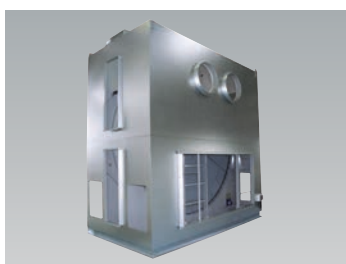
Spiral-shaped gasket for ultra-high-temperature use  
**TOMBO™ No. 1838R-NM**  
**VORTEX™ gasket – NM**

These spiral-shaped gasket can be used at a maximum temperature of 1,000°C. It maintains its sealing performance even at ultra-high temperatures.



Low dielectric polarized tape  
**TOMBO™ No. 9001**  
**NAFLON™ PTFE tape**

Thin PTFE tape that can be manufactured at a minimum thickness of 30 microns and a maximum width of 1,300 mm. It combines PTFE's excellent electrical properties, non-adhesiveness, and low friction coefficient.



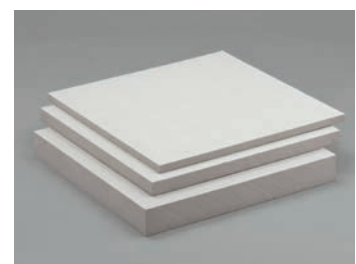
Concentrator for low-concentration organic solvent  
**TOMBO™ No.8805**  
**SOLVENTCLEAN™**

This equipment concentrates gases emitted from factories and other facilities that contain low concentrations of VOCs. This enables the efficient treatment of gases that contain VOCs when combined with organic solvent treatment equipment.



Steam resistant perfluoroelastomer  
**TOMBO™ No. 2675-S2**  
**BLAZER™ O-ring-S2**

A perfluoroelastomer that shows stable sealing performance in environments with high-temperature steam and nucleophilic agents.



Low thermal conductivity heat-insulation material  
**TOMBO™ No. 4350-GH**  
**ROSLIM™ Board GH**

This is an excellent thermal insulation material that has low thermal conductivity and is highly processable. We received the 2016 Energy Conservation Grand Prize (in the Best Products and Business Models category) for developing product with excellent energy saving properties.

# Featured Technical Services

We use advanced technology to create new value by preventing leaks and maintaining the safety of your operations.

Keeping up-to-date with the latest knowledge and technology is essential for maintaining the safety of facilities. NICHIAS contributes to the sustainability of your company's safe operations through preventative maintenance by utilizing the latest technology and data based on the knowledge we have built up over a history spanning more than 120 years.

## STEP 1

### GASKETNAVI™

"We can solve your gasket selection problems!"  
 "We can solve the hassle of tightening calculations!"

A technical support application that can accurately and quickly select gasket and calculate tightening torque on a PC, smartphone, or tablet with ease. It contains various product information such as gasket properties, technical data, and usage precautions.



Search or get it via two-dimensional code.



## STEP 2

### GASKET工房™

"We can solve problems ranging from delivery to lead time!"

GASKET KOBO is a mobile service truck fitted with equipment for machining sheet gasket. We visit the plant premises of our customers directly for immediate on-site machining and delivery of gasket. We can be on site to provide gasket that are urgently needed due to unplanned construction and other problems that arise during plant maintenance.



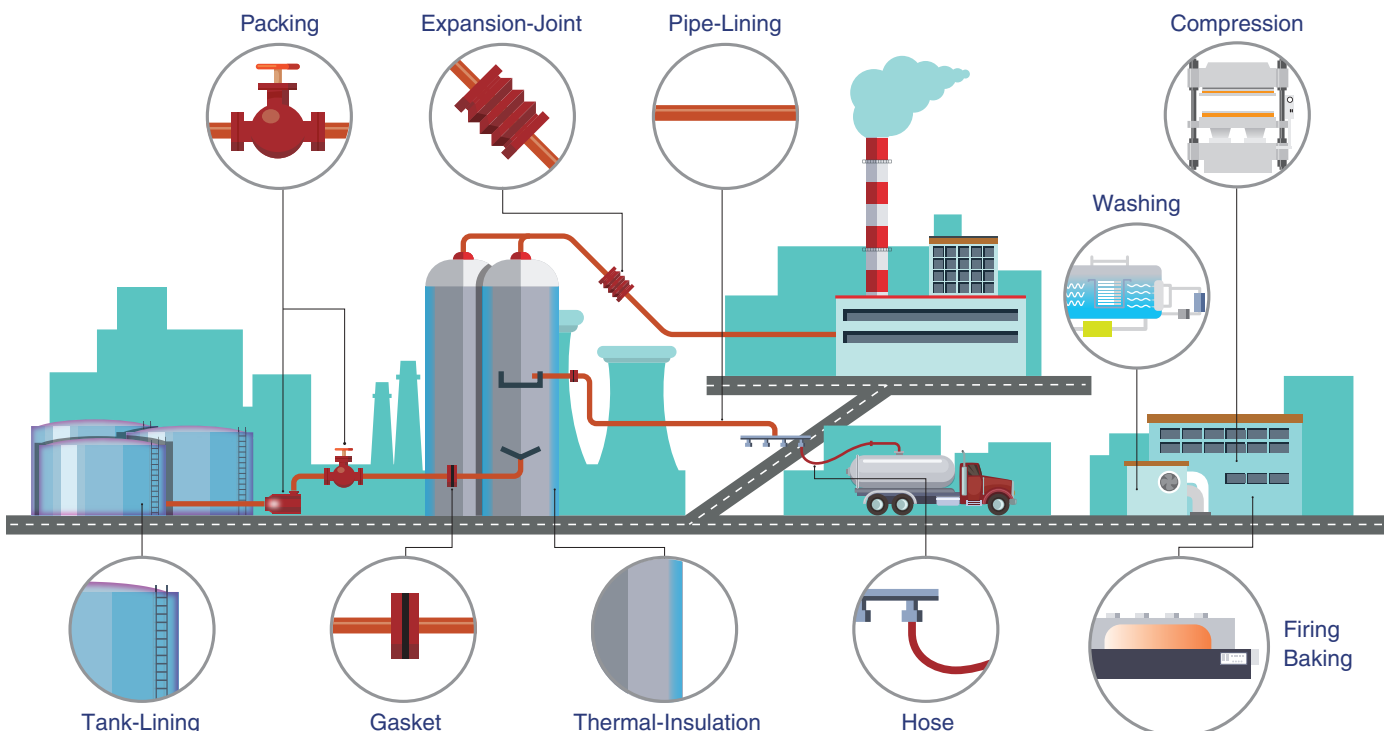
## STEP 3

### ガスケッ Lab!™

"We solve problems involving leakage from flanges!"  
 "We solve construction technology problems!"

GASKET Lab is an engineering service that facilitates safe plant operations through preventative maintenance. We help customers with preventative maintenance through the cycle of assessment technology, verification technology, and experience-based learning.

#### The Three Elements of Safe Operation





## Head Office

6-1, Hatchobori 1-chome, Chuo-ku, Tokyo 104-8555, Japan  
**International Marketing and Sales Group**  
 Phone: 81-3-4413-1132 Fax: 81-3-3552-6108  
 Web Site: <https://www.nichias.co.jp/>

## Overseas Sales Companies

### Indonesia

#### PT. NICHIAS SUNIJAYA

Sequis Tower Level 19 Suite 1&2,  
 Jl. Jend Sudirman Kav. 71, Jakarta 12190, Indonesia  
 Phone: +62-21- 2277-6101 Fax: +62-21- 2793-8033

### Malaysia

#### NICHIAS SOUTHEAST ASIA SDN. BHD.

Suite A1102, 11th Floor, West Wing, Wisma Consplant 2,  
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## Overseas Construction Companies

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## Overseas Factories

### Indonesia

#### PT. NICHIAS ROCKWOOL INDONESIA

#### PT. NICHIAS METALWORKS INDONESIA

### Malaysia

#### NICHIAS FGS SDN. BHD.

#### NT RUBBER-SEALS SDN. BHD.

### Vietnam

#### NICHIAS HAIPHONG CO., LTD.

### China

#### SUZHOU NICHIAS INDUSTRIAL PRODUCTS CO., LTD.

(苏州霓佳斯工业制品有限公司)

#### SUZHOU NICHIAS SEAL MATERIAL CO., LTD.

(苏州霓佳斯密封材料有限公司)

#### SHANGHAI XINGSHENG GASKET CO., LTD.

(上海兴盛密封垫有限公司)

#### SUZHOU SHUANGYOU AUTOPARTS CO., LTD.

(苏州双友汽车零部件有限公司)

### India

#### NICHIAS INDUSTRIAL PRODUCTS PRIVATE LTD.

### Czech

#### NICHIAS AUTOPARTS EUROPE a.s.

### Mexico

#### NAX MFG, S.A.DE C.V.

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