

# **Product Guide**



# NICHIAS contributes to the Earth's bright future through our Insulation and Protection technologies

NICHIAS commenced operations in 1896 as a pioneer in the areas of thermal insulation packing and gasket materials. During the past century we have engaged in a broad spectrum of activities encompassing sectors such as energy, petroleum and petrochemical plants, electronics, information and communications, automobiles, construction, housing, agriculture as well as urban development, environmental protection, and aerospace, and our technological capabilities have earned a very high evaluation and the confidence of users in all these sectors.

# **Business contents**

# **Industrial Products**

#### Sealing materials

Manufacture and sales of gaskets, packings, rubber products, friction materials and non-metallic flexible expansion joints

#### Insulation materials

Manufacture and sales of thermal insulation materials, hot and cold insulation materials and honeycomb filters

#### Fluoropolymer

Manufacture and sales of fluororesin products and super engineering plastic products

# **Energy and Industrial Plants**

- Thermal insulation & Cryogenic insulation work
- Fireproofing work
- Soundproofing work
- Sales of related materials

Insulation and Protection technologies

# **Advanced Products**

Manufacture and sales of semiconductor and flat panel display production systems, sealing materials for equipment, thermal insulation materials and fluororesin products

# **Building Materials**

Building material products

Manufacture and sales of incombustible interior materials, and incombustible materials and heat-insulation materials for housing

Building materials installation work Raised access floor work and fire-proofing covering work

# **Autoparts**

Manufacture and sales of sealing materials, heat-protection materials, soundproofing materials and vibration damping materials for automobiles

\*TOMBO is a trademark or registered trademark of NICHIAS Corporation. \*Name of products with "TM" are trademarks of NICHIAS Corporation.

# SEALING MATERIALS

Eliminating leakage from vacuum to high pressure, and from cryogenic to high temperature applications

### GASKETS



• Jointing Sheet Gasketing materials for piping and vessels



 Spiral Wound Gasket Semi-metallic gasket suitable for high pressure seals from cryogenic to elevated temperatures



 Metal Jacketed Gasket & Ring Joint Gasket
 Metal Gasket suitable for high temperature duties



 Metal O seal Stainless-Inconel tube formed into an O ring shape



GRASEAL™ Gasket Expanded Graphite gasket suitable for chemical treatment and heat treatment



■ NAFLON<sup>™</sup> Gasket Fluoropolymer (PTFE, PTFE Envelope, PFA) gasket



■ NICHIAS SOFT SEAL<sup>™</sup> Soft type gasket made of expanded PTFE



 Manhole Gasket Manhole & Handhole Gasket for exhaust gas, hot air, etc



 Kammprofile Gasket Specially grooved semi-metallic gasket with soft covering layers

# **RUBBER MOLDED PRODUCTS**



 Elastomer O-ring Elastomer O-ring, Semiconductor processing, oil-drilling and food pharmaceutical applications



■ NAFLON<sup>™</sup> covered rubber gasket PTFE covered elastomer gasket for piping and sanitary applications

#### PACKINGS



Packing (Braided & Molded) Suitable for valves, pumps, and other rotating equipment

# **FLUOROPOLYMER PRODUCTS**

Wide range of fluoropolymer products under the brand name of NAFLON<sup>™</sup>



Piping Materials
 PFA Lined Pipings & Fittings

### **CORROSION RESISTANCE LINING**



Valves Fluoropolymer Lined Valves



Hoses & Bellows PFA & PTFE Lined Hoses & Bellows



• Vessels PFA & PTFE Lined vessels

#### **ELECTRICAL INSULATION PRODUCTS**



• Vessel accessories Tank accessories made of various fluororesin products



 Roto Molded Linings Fluoropolymer Roto Lined Pipings, Fittings & Vessels

**SLIDING MATERIALS** 



 Insulation Gasket Kit Bolt and Gasket set for electrical insulation



● EXCELIDE<sup>™</sup> Self lubricating bearing made from filled PTFE & PPS



● NAFLON<sup>™</sup> U Bolt Piping support materials that allow the smooth thermal expansion and contraction of piping

**BASIC MATERIALS** 

### SEMICONDUCTOR & LCD RELATED PRODUCTS



 NAFLON™ Part Miscellaneous Parts for semiconductor applications



● NAFLON<sup>™</sup> PFA-NE Tubing Super PFA Tubing having electric conducting striped layers for Non-Explosion applications



● NAFLON<sup>™</sup> Materials Wide variety of Fluoropolymer Sheets, Tapes, Rods, Pipes, and Tubing

# THERMAL INSULATION MATERIALS

Minimizing heat loss from cryogenic to ultra high temperature applications by utilizing the features of raw materials

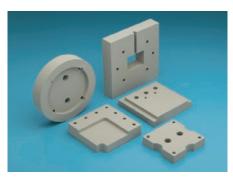


FINEFLEX BIO™ Light weight and flexible alkaline earth silicate wool products

### HOT INSULATION MATERIALS



■ RF BOARD<sup>™</sup> Alumina fiber-based board for high temperature use



● ROSLIM<sup>™</sup> Board H and ROSLIM<sup>™</sup> Board GH Low thermal conductioity heat-insulation materials



• Textile Textiles made of glass fibers, silicate fibers, alkaline earth silicate wool and alumina fibers



Paper and sheet made of alkaline earth silicate

Paper, Sheet

■ HEMISUL<sup>™</sup> Thermal Insulation board for hot presses, induction furnaces and switch boxes

#### INSULATION MATERIALS FOR MOLTEN ALUMINIUM APPLICATIONS



● ENETHERMO<sup>™</sup> Reusable flexible thermal insulation product



MG products
 Insulation materials made of rock wool for various industrial sectors



● KEICAL ACE SUPER SILICA™\* Super light weight calcium silicate insulation \*KEICAL ACE SUPER SILICA is a trademark of NIPPON KEICAL LIMITED.

### **COLD INSULATION MATERIALS**



 LUMIBOARD<sup>™</sup> Non asbestos calcium silicate board for aluminium industry
 LUMISUL<sup>™</sup> Specially formulated castable for molten

aluminium applications



FOAMNERT<sup>™</sup> Support Heat insulating supports for cryogenic piping



 Insulation Contract LNG underground storage tank insulated by our cryogenic insulation material

# SPECIALITY PRODUCTS

Advanced technology provides various products from agriculture to environmental fields



 HONEYCLE<sup>™</sup> SG Industrial dehumidifying rotor that creates low dew-point air

### **HONEYCOMB FILTERS**



● HONEYCLE<sup>™</sup> GX Dehumidifying rotor for desiccant-type clothes dryer and dehumidifier

# HONEYCOMB FILTERS



● HONEYCOMB WASHER™ Air washer for semiconductor application

#### **AUTOMOTIVE PARTS**



 Auto Parts Automotive gaskets and other parts

## MISCELLANEOUS PRODUCTS



#### ■SOLVENTCLEAN<sup>™</sup>

VOC concentrator suitable for a large airflow volume and low concentration of exhaust gas removal

#### **BUILDING MATERIALS**



• Free access floor system Various types of raised access floors



• Thread Seal Tape Unsintered PTFE tape for plumbing



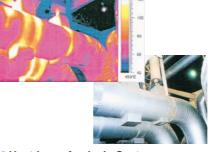
• Disk Roll Disks for covered rolls in plate glass and stainless steel industry



● Bellow-Q<sup>™</sup> Non-metallic flexible expansion joint for waste incinerator plants and power plants



 Brake Lining Friction materials for industrial uses especially lifts, moorings, windlasses, electromagnetic brakes, etc

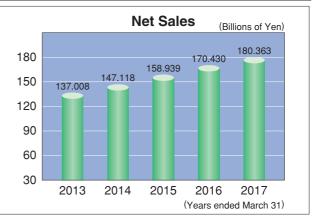


 Heat Loss Analysis System Giving energy saving advice by analyzing radiation heat

#### Outline (As of September 30, 2017)

# Consolidated Sales Performance

Corporate name Founded	NICHIAS Corporation April 9, 1896
Head Office	6-1, Hatchobori 1-Chome, Chuo-ku,
Capital	Tokyo 104-8555, Japan 12,128 million yen
Employees	5,725



# Network



#### Global Network

#### Indonesia

PT. NICHIAS SUNIJAYA Sales of sealing materials, insulation materials, fluoropolyme products, auto parts, building materials, and Engineering and insulation work

PT. NICHIAS ROCKWOOL INDONESIA Manufacture of sealing materials, insulation materials, and auto parts

PT. NICHIAS METALWORKS INDONESIA Manufacture of sealing materials and building materials

Malavsia

NICHIAS FGS SDN. BHD. Manufacture and Sales of sealing materials, fluoropolymer products, auto parts, building materials, and Sales of insulation materials

#### NICHIAS SOUTHEAST ASIA SDN. BHD.

Sales of insulation materials, and Engineering and insulation work NT RUBBER-SEALS SDN. BHD. Manufacture of sealing materials

#### Singapore

NICHIAS SINGAPORE PTE. LTD. Sales of sealing materials, insulation materials, Filters, fluoropolymer products, auto parts, and building materials

#### Vietnam

NICHIAS HAIPHONG CO., LTD. Manufacture and Sales of sealing materials, filters, and fluoropolymer products

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

THAI-NICHIAS ENGINEERING CO., LTD. Sales of insulation materials, and Engineering and insulation work

#### China

#### NICHIAS (SHANGHAI) TRADING CO., LTD. (霓佳斯 (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 (霓佳斯(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. (霓佳斯(上海)汽零部件貿易有限公司) les of auto parts

SUZHOU NICHIAS INDUSTRIAL PRODUCTS CO., LTD. (蘇州霓佳斯工業製品有限公司) Manufacture of fluoropolymer products and auto parts

SUZHOU NICHIAS SEAL MATERIAL CO., LTD.

(蘇州霓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

SHANGHAI GOYU AUTOPARTS CO., LTD. (上海五友汽車零部件有限公司) Manufacture and Sales of auto parts

#### India

NICHIAS INDUSTRIAL PRODUCTS PRIVATE LTD.

Germany NICHIAS AUTOPARTS EUROPE GmbH Sales of auto parts

**United Kingdom** NICHIAS EUROPE (UK) LTD Sales of sealing materials insulation materials Filters and fluoropolymer products

Czech NICHIAS AUTOPARTS EUROPE a.s. Vanufacture and Sales of auto parts

#### Mexico NAX MFG, S. A. DE C. V. Manufacture and Sales of auto parts

Group companies in Japan NICHIAS CERATECH CO., LTD.

Manufacture a ale of insulation materials and building

SAKAI NICHIAS CORPORATION

KOKUBU INDUSTRY CORPORATION and auto parts cture of insulation r

TOKYO MATERIALS CORPORATION Sale of fluoropolymer produ

TATSUTA INDUSTRY CORPORATION auto parts and building Manufacture of insulation n materials

OHTA KASEI CORPORATION Manufacture of insulation materia

NICHIAS MECHATECHNO CO., LTD. Manufacture of sealing materials and fluoropolymer products

NICHIAS KANTO SALES CORPORATION Sale of sealing materials, insulation materials and fluoropolymer products

NISHI-NIPPON NICHIAS CO., LTD. sale of sealing materials and fluoropolymer products

HAMAASU CORPORATION terials, insulation materials, fluoropolymer Sale of sealing m products and building materials, installation work of building materials

NIPPON THERMAL ENGINEERING CORPORATION Engineering and construction of insulation NICHIAS ENGINEERING SERVICE CORPORATION

ring and construction of insulation INOCRETE CO., LTD. Fngineering and construction of insulation materials

NICHIAS KYUSHU SALES CO.,LTD Sale of sealing materials, insulation materials and fluoropolymer products

FUKUSHIMA NICHIAS CORPORATION Manufacture of fluoropolymer products and insulation materials

KUMAMOTO NICHIAS CORPORATION Manufacture of fluoropoly METAKOTE INDUSTRY CORPORATION

facture of auto parts APJ Corporation Manufacture of auto parts

NIPPON ROCKWOOL CORPORATION Sale of building materials and agricultural products KIMITSU ROCKWOOL CORPORATION

Aanufacture of building materia

NICHIAS CEMCRETE CORPORATION Sale and construction of building mat NICHIAS KYOSHIN CORPORATION surance agency



#### 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: http://www.nichias.co.jp/

#### Overseas Sales Companies

#### Indonesia

PT. NICHIAS SUNIJAYA

Panin Life Center, 2nd Floor, Room 205, Jl. Letnan Jenderal S. Parman Kav. 91, Jakarta 11420, Indonesia Phone: +62-21-56956207 Fax: +62-21-56956208/56956209

#### Malaysia

#### NICHIAS SOUTHEAST ASIA SDN. BHD.

Suite A1102, 11th Floor, West Wing, Wisma Consplant 2, No. 7, Jalan SS 16/1, 47500 Subang Jaya, Selangor Darul Ehsan, Malaysia. Phone: +60-3-5636-4067 Fax: +60-3-5636-4078

#### Singapore

#### NICHIAS SINGAPORE PTE. LTD.

25 International Business Park, #01-15/17 German Centre, Singapore 609916

Phone: +65-6571-0830/0838 Fax: +65-6265-7681

#### Vietnam

NICHIAS VIETNAM CO., LTD

Room 12-K, 12Floor, Center Building, Hapulico Complex No1 Nguyen Huy Tuong, Thanh Xuan Trung, Thanh Xuan, Hanoi, Vietnam Phone: + 84-4-3791-7194 Fax: + 84-4-3791-6203

#### Thailand

NICHIAS (THAILAND) CO., LTD. 85 Moo 1, Wellgrow Industrial Estate T. Homsin, A. Bangpakong Chachoengsao 24180, Thailand

Phone: +66-38-570-600 Fax: +66-38-570-601

#### THAI NICHIAS INTERNATIONAL CO., LTD. Unit 1107. 11th Floor. AIA Capital Center

89 Ratchadaphisek Road, Dindaeng, Dindaeng, Bangkok 10400 Thailand Phone: +66-2-001-2060 Fax: +66-2-001-2062

#### China NICHIAS (SHANGHAI) TRADING CO., LTD.

 
 電佳斯(上海) 贸易有限公司
 Room 1701, THE PLACE, Tower A, No. 100 Zun Yi Road, Changning District, Shanghai, P.R.China Postcode 200051

 中国上海市长宁区遵义路100号虹桥南丰城A栋1701室 邮编200051

 Phone: +86-21-6236-1783 Fax: +86-21-6236-1781

#### NICHIAS (SHANGHAI) TRADING CO., LTD. Guangzhou Branch

 寬佳斯(上海)贸易有限公司 广州分公司

 17F-G, Gold Sun Building, No.109 Tiyu West Road, Guangzhou,
 Guang Dong Province, 510620, P.R.China
 中国广东省广州市天河区体育西路109号高盛大厦17楼G室 邮编 510620

 Phone: +86-20-3879-1640 Fax: +86-20-3879-1647

#### NICHIAS (SHANGHAI) AUTOPARTS TRADING CO., LTD.

#### 霓佳斯(上海)汽车零部件贸易有限公司

Room 1702, THE PLACE, Tower A, No. 100 Zun Yi Road, Changning District, Shanghai, P.R.China Postcode 200051 中国上海市长宁区遵义路100号虹桥南丰城A栋1702室 邮编200051 Phone: +86-21-6236-2668 Fax: +86-21-6236-2667

#### Germany

NICHIAS AUTOPARTS EUROPE GmbH Prinzenallee 7, 40549 Düsseldorf, Germany Phone: +49 (0)211-52391-058 Fax: +49 (0)211-52391-200 United Kingdom NICHIAS EUROPE (UK) LTD 10th Floor, Hardman Street, Manchester, M3 3HF, UK Phone: +44-0-161-932-1422 Fax: +44-0-161-932-1401

#### Overseas Construction Companies Malaysia

NICHIAS SOUTHEAST ASIA SDN. BHD. Suite A1102, 11th Floor, West Wing, Wisma Consplant 2, No. 7, Jalan SS 16/1, 47500 Subang Jaya, Selangor Darul Ehsan, Malaysia. Phone: +60-3-5636-4067 Fax: +60-3-5636-4078 Thailand

#### **THAI-NICHIAS ENGINEERING CO., LTD.** 45 Huaypong-Nongbon Road, Huaypong, Muang Rayong,

45 Huaypong-Nongbon Road, Huaypong, Muang Rayong Rayong Province 21150, Thailand Phone: +66-38-682-242 Fax: +66-38-691-156

#### Overseas Factories

Indonesia PT, NICHIAS ROCKWOOL INDONESIA PT. NICHIAS METALWORKS INDONESIA Malavsia 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. (苏州霞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) SHANGHAI GOYU AUTO PARTS CO., LTD. (上海五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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