Technologies, products, and services of NICHIAS that solve social issues

The NICHIAS Group provides products and services to a wide variety of fields including infrastructure that supports social foundation such as petrochemistry and electricity, automobiles supporting logistics and transportation of people, buildings and housing supporting lives, and semiconductor devices that support advanced information technologies.



Five businesses

- Energy and Industrial Plants Business
- Industrial Products Business
- Advanced Products Business
- Autoparts Business
- Building Materials Business

Six technologies of TATSU-TAMOTSU™

Sealing technology	It prevents fluid leakage from pipe joints and supports the safe operation of the facility.
Thermal insulation technology	This technology contributes to energy saving by maintaining the temperature of the item that is heated (or cooled down) and insulating the heat from outside and helps reduce CO_2 emissions.
Soundproofing technologies	Soundproofing technologies contribute to quiet and comfortable life through reducing the noise from factories and vibration sound from automobile brakes.
Fireproof technology	It provides materials that protect industrial furnaces, incinerators, and buildings in fire from fire to secure safety.
Corrosion-proof technology	The technology prevents corrosion and pollution caused by chemicals. For example, it plays an active role in the processes of manufacturing semiconductors and food, which have severe standards for cleaning and sanitizing control.
Clean technology	It maintains cleanness in processes that tolerate no impurity, such as semiconductor manufacturing. We pursue cleanliness to the extreme.

1 For rockets

Fluoropolymer hose
NAFLON™ PFA pressure resistant hose



Hoses made of fluoropolymer that are used for rocket launching platform equipment and facilitycontrol lines.

2 For logistics warehouses

Wrap-Type Fire-proofing Covering Materials
MAKIBEE™



Fire-proofing covering materials used for beams and pillars of steel construction buildings. It also contributes to laborsaving in construction.

3 For refrigerated warehouses

Heat insulation work



Construction work for installing heat retention and cold retention materials at such as -20°C largescale refrigerated warehouses.

4 For nuclear power plants

Heat retention materials for nuclear power stations
Metallic heat retention material



All-metal heat retention material, which does not generate dust and is used for pressure vessels and piping of atomic furnaces.

5 For food-manufacturing plants

Sealing materials for food
SANICLEAN™ GASKET



Odor-free and contamination-proof sealing material used for filling lines in the food manufacturing process, etc.

6 For semiconductor manufacturing factories

Fluoropolymer tube
NAFLON™ PFA-NE TUBE



Fluoropolymer tubes for preventing discharging phenomena caused by friction while maintaining the cleanness of high-purity chemicals used in semiconductor manufacturing processes.

Pipe heating and insulation jacket heater
ENETHERMO™ PH



A jacket-type detachable heater that heats the equipment and pipes and keep them warm.

Heat-resistant perfluoro elastomer
Rubber O-ring BLAZER™ NEXT



It is a perfluoroelastomer sealant used in equipment, piping, and valves. It prevents leaks in pipes.

7 For electronic part factories (of multi-layer ceramic condensers)

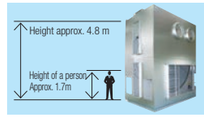
Extremely high-temperature heat resistant board
RF BOARD™



Heat-resistant board that is used in firing furnaces of multi-layered ceramic condenser (MLCC).

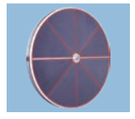
8 For battery factories (of lithium ion batteries)

Volatile organic compound concentrator
SOLVENTCLEAN™



Equipment for absorbing and collecting gas, including volatile organic compounds (VOC) emitted from factories.

Industrial dehumidification rotor
HONEYCLE™ EX-SG



This is a dehumidification rotor that generates ultra-low dew-point air (dry air) that is sent into lithium-ion battery factories.

9 For automobiles, 10 EVs

High-performance brake shim material
METAPLUS™ Multi-Layer Shims



A soundproofing part to be installed onto disc brake pads. Reduces unpleasant noise generated during braking.

11 For alkaline water electrolysis plants

Fluororesin tube
NAFLON™ PTFE tube processed products



A fluororesin tube manufactured with special bending processing technology.

12 For buildings

Raised-Access Floor Systems
NICHIAS OMEGA FLOOR™



Raised-access floor system of double-floor structure with the office floor. It has superior walking comfort and creates a comfortable office environment.

13 For housing

Kitchen exhaust duct fire-proofing material
CERACOVER™ S



It is a fireproof material for kitchen exhaust ducts.

14 For LNG facilities, 18 ammonia hydrogen storage plants

Heat retention material for extremely low temperatures
FOAMNERT™ TN



Polyurethane foam heat retention material used for piping in which low-temperature fluid flows.

15 For hospitals

Medical tube
NAFLON™ Multi-lumen tubes



Tube made of fluoropolymer with only a diameter of around 1 mm, which is used as a part of medical equipment such as endoscopes that need to be clean.

17 For fuel-transporting vessels

Cold retention work



Construction work for installing heat retention materials on the piping and tanks of LNG vessels in which low-temperature fluid flows.

16 Waste incineration plant, 19 thermal power plant, 20 steelmaking plants

Thermal insulation material for high temperatures
FINEFLEX BIO™ Blanket



Thermal insulation material used for boiler ceilings and furnace walls. It contributes to energy saving.

21 For petrochemical plants

Heat retention function recovering method
Overlapped Heat Retenation method



In this method, the heat retention performance is recovered through lap-winding new heat retention material without removing the deteriorated heat retention material.

GASKET KOBO™



A truck that can be driven to the customer's factory and process gaskets on site. Speedy response is a feature of this service.