

JOINT SHEETS

Compressed fiber joint sheet is a gasket made of a uniform mixture of fibrous material, filler, rubber and chemicals which is hot rolled by calendaring to obtain smooth sheets. The sheets are processed to the required shapes and dimensions for applications in equipment, etc., in a wide range of industries.

General-purpose NA Joint Sheets

CLINSIL™ -Brown

TOMBO® No.1995

Features : Inorganic filler is added to inorganic fibers and aramid fibers; then oil-resistant synthetic rubber is added as binder to form brown NA (non-asbestos) joint sheets which contain absolutely no asbestos. This gasket can be used for stainless steel flange since leachable halogens are little.

Large diameter gasket cut from the sheet of 3,810mm x 3,810mm (9S size) max. in monolithic form is available.

Applications : Gaskets for various types of piping flanges and valves, equipment, etc.

Service Range (For details, please refer to the diagram on page 10.)

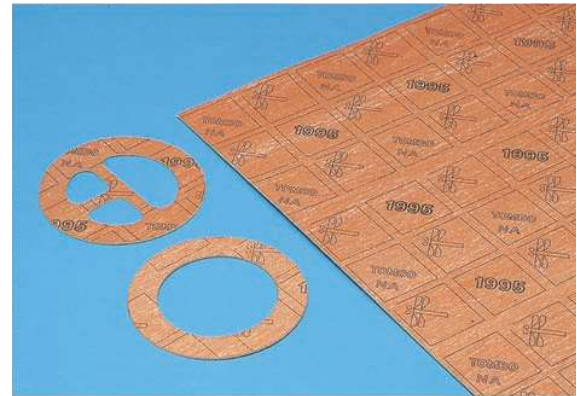
- Temperature : -100°C ~ 183°C
- Pressure : Saturated steam, hot water
→ See Page 10
- Water, salt solutions, weak acid and weak alkali solutions. → Max. 3.0MPa
- Oil at 100°C or lower. → Max. 3.0MPa
- Air, exhaust gas, inert gas. → Max. 1.0MPa

Applicable standards

API 6FA (FIRESAFE) BAM OXYGEN GAS SERVICE
GERMANISCHER LLOYD GL TYPE
TA LUFT/VDI GUIDE LINE 2440 (HELIUM LEAKAGE)
ASTM F104 F712100-B5E12M5
JIS F 0602 HJ JIS F 7102 HJ

Availability

Width×Length	Thickness				
	0.8	1.0	1.5	2.0	3.0
1270×1270 (1S)	○	○	○	○	○
1270×3810 (3S)	○	○	○	○	○
2540×3810 (6S)	—	○	○	○	○
3810×3810 (9S)	—	—	○	○	○



TOMBO No. 1995

⚠ Caution for Steam Sealing more than 100°C

- Use ring shape (FR) and 1.5mm gasket.
- Minimum recommended compressive stress for TOMBO No. 1995 is 29.4N/mm²
- TOMBO No. 1993 is recommended when maximum operating pressure is 0.5MPa and over.
- Use Vortex gaskets, etc. in places where maintenance is difficult.
- Re-torque immediately before temperature rise.
- Do not re-torque after temperature rise.
- Avoid piping stress to installed gaskets.

NA Joint Sheets for Stream

CLINSIL™ -Super

TOMBO® No.1993

Features : The main components are inorganic fibers to which inorganic filler and aramid fibers are added; oil-resistant synthetic rubber is then added as binder to form green NA (non-asbestos) joint sheets, which contain absolutely no asbestos.

This gasket can be used for stainless steel flange since leachable halogens are little.

Applications : Gaskets for various types of piping flanges and valves, equipment, etc.

Service Range (For details, please refer to the diagram on page 10.)

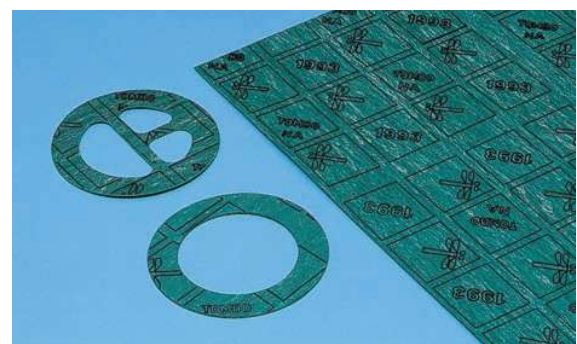
- Temperature : -100°C ~ 215°C
- Pressure : Saturated steam, hot water
→ See Page 10
- Water, salt solutions, weak acid and weak alkali solutions. → Max. 3.0MPa
- Oil at 100°C or lower. → Max. 3.0MPa
- Air, exhaust gas, inert gas. → Max. 1.0MPa

Applicable standards

JIS F 0602 HJ BAM OXYGEN GAS SERVICE
ASTM F104 F712100-B5E12M5
JIS F 7102 HJ

Availability

Width×Length	Thickness					
	0.5	0.8	1.0	1.5	2.0	3.0
1270×1270 (1S)	○	○	○	○	○	○
1270×3810 (3S)	○	○	○	○	○	○



TOMBO No. 1993

⚠ Caution for Steam Sealing more than 120°C

- Use ring shape (FR) and 1.5mm gasket.
- Minimum recommended compressive stress for TOMBO No. 1993 is 29.4N/mm².
- Use Vortex gaskets, etc. in places where maintenance is difficult.
- Re-torque immediately before temperature rise.
- Do not re-torque after temperature rise.
- Avoid piping stress to installed gaskets.

⚠ Handling instructions in the case where gasket is for use in gas line.

- Do not use this gasket for applications where even a minimal amount of leakage is not allowable.