

TOMBO Brand Joint Sheet Product Range



AVAILABLE SIZES (mm)

Thickness	0.5	0.8	1.0	1.5	2.0	3.0
Width x Length	1270 x 1270 (1S)	1270 x 3810 (3S)	2540 x 3810 (6S)	3810 x 3810 (9S)		

PHYSICAL PROPERTIES (Applicable for 1.5mm thick material)

Applicable Thickness	(mm)	
Density	[g/cm ³]	
Tensile Strength	[MPa]	300mm/min
Compressibility	[%]	34.3N/mm ²
Recovery	[%]	
Flexibility	[F Value]	
Stress Relaxation	[%]	100°C X 22hr 20.6MPa
Gas Sealability	[cc/10min]	Sealing Stress : 29.4N / mm ² N ₂ Pressure : 0.7MPa
Oil Resistance (TS reduction rate)	[%]	IRM903, 150°C X .5hr
Oil Resistance (Thickness increase rate)	[%]	
Fuel Oil Resistance (Thickness increase rate)	[%]	Fuel B Ambient x 5hr
Fuel Oil Resistance (Weight increase rate)	[%]	

With paste
W/O paste

TEMPERATURE AND PRESSURE INFORMATIONS : (FOR GUIDELINE ONLY)

Max. Peak Temperature :	°C	460°C	250°C	300°C
Operating Temperature :	°C	-170°C to 183°C	-29°C to 120°C	-200°C to 260°C
- with Steam :	°C	150°C	-	214°C
Maximum Pressure :	MPa	4MPa	2MPa	4MPa
Test Standard :		Germanischer Lloyd Type Approvals Part 2, Edition 2003 JIS R 3453:2001 API Standard 6FA, Third Edition April 1999 DIN EN 1797:2002-02 (BAM) VDI Guide Line 2440 (Edition Nov. 2000)	Germanischer Lloyd Type Approvals Part 2, Edition 2003 JIS R 3453:2001	JIS R 3453:2001 ASME B16.21-1992 VDI Guide Line 2440 TA Luft (Edition Nov. 2000) API Standard 6FA, Third Edition April, 1999 "Tested"

Special Note:

The figures shown as Max. Peak Temperature are just for reference only.
The above data shown in Max. Peak Temperature is based on the actual test conducted by internationally acclaimed inspection institutions or by NICHAS's laboratory.
Max. Peak Temperature is only for a certain period of time.
The Operating Temperature shows just the recommended range only. In the actual application, the technical advice is needed from the view points of various conditions, like flange type, fluids, pressure etc.



T/ #1995

FEATURES:

The Flagship in Tombo Brand non asbestos gaskets materials. An optimised combination of Aramid fibers and inorganic fibers with an NBR binder. Excellent sealing performance with high temperature resistance.

APPLICATION:

- General Industry in various type of piping flanges and valves etc

USES:

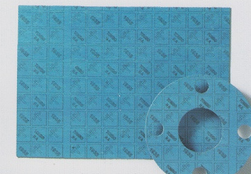
- Good resistance to oil, fuels, hydrocarbons and steam applications.
- Suitable for a wide range of industries including oil and gas, petrochemicals and cryogenic (LNG) applications.

APPLICABLE STANDARD:

JIS R3453-2001
JIS B2404-1999
JPI-7S-4-1998
JPI-7S-16-1998
ASME B16.21-1992

APPROVALS:

- Germanischer Lloyd GL Type Certificate No.44 059-06HH
- API-6FA Approved Fire Safety: UK/DOT, Rule 54 Appendix D
- BAM Approved (130bar/90°C)
- TA Luft Approval



T/ #1935

An economic grade based on organic fibers with an NBR binder. Suitable for general industrial service including oils, hydrocarbons and water.

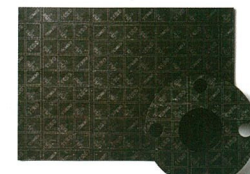
- General Industry in low critical fields, shipyards

- Good resistance to oils, fuels, hydrocarbons etc.

- Suitable for low operating pressure applications including general industries and automotive aftermarket

JIS R3453-2001
JIS B2404-1999
JPI-7S-4-1998
JPI-7S-16-1998
ASME B16.21-1992

- Germanischer Lloyd GL Type Certificate No.44 059-06HH



T/ #1120

Innovative non-asbestos joint sheet for high-temperature and pressure applications. Unique combination of Expanded Graphite and Aramid allows for excellent sealing performance. The true CAF Joint Sheet replacement

- Sealability is equivalent to that of CAF Joint Sheet

- Excellent resistance to high-pressure Saturated Steam and other mediums.

- Highly recommended for usage in high-temperature and pressure application or when semi-metallic/metallic gasket is not practice.

JIS R3453-2001
JIS B2404-1999
JPI-7S-4-1998
JPI-7S-16-1998
ASME B16.21-1992

- TA Luft (clean air) approval, tested in accordance to VDI 2440 at 250°C