

High Temperature Use Packings

Super Seal Packing

TOMBO™ No.2280-S

Construction

This is high temperature valve packing made of GRASEAL™ (expanded graphite) reinforced with stainless steel 316L filaments.

Finished with special lubricant, graphite and anti-corrosion materials.

Features

1. As this is stored in coil form, this can be used for emergency requirements.
2. Superior sealing performance can be expected in comparison with asbestos braided packings.
3. Expanded graphite (GRASEAL™) has excellent chemical resistance next only to PTFE and can be used against almost all fluids except the prohibited fluids listed in the table on the right.
4. Applicable alone without use of adapter packings.
5. To facilitate inserting the packing into stuffing box, packings in coil form have rectangular cross-section.
6. As this is treated with our original anticorrosive, this has an excellent anticorrosive performance and is applicable to 13-chrome steel valve shaft.

Application

Thermal power plants, petroleum refineries, shipbuilding, chemical plants, cryogenic services, high temperature gas plants, etc.

Cast steel valves, forged steel valves, stainless steel valves, etc.

Service Range

Max. Temperature	– 240 ~ 400°C (oxidizing atmosphere, in air) – 240 ~ 600°C (non-oxidizing atmosphere)
Max. Pressure	25MPa
Pressure Class	1500

Note: Our experience to date shows that these packings may be used up to pressure classes of 1500, but the recommended class is 900 or below.

Please contact us concerning packings for gas seals that will be used at pressures exceeding 10 MPa or steam seals that will be used at pressures exceeding 19 MPa.

Standard size and weight

TOMBO™ No.	Nominal size (mm)	3.0 (3.2)	5.0 (4.8)	6.5 (6.4)	8.0 (7.9)	9.5 (9.5)	11.0 (11.1)	12.5 (12.7)	14.5 (14.3)	16.0 (15.9)	19.0 (19.0)	22.0 (22.2)	25.5 (25.4)	Supply form
2280-S	Width (mm)	2.5	4.0	5.5	7.0	8.0	9.5	11.0	12.5	14.0	16.5	19.0	22.5	3meter /coil
	Height (mm)	4.5	8.5	11.0	13.0	14.5	15.7	16.5	19.5	20.0	24.0	26.0	30.6	
	Weight (kg) ⁽¹⁾	0.054	0.130	0.222	0.335	0.420	0.490	0.550	0.770	0.890	1.270	1.550	2.150	
	Braiding	Square braid						Braid over braid						

Notes: (1)Reference weight for 1 coil



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Fluids

Water type fluids (water, hot water, steam, etc.), Oil type fluids (oil, heat transfer oil, etc.), organic solvents, hydrocarbons, gaseous fluids (hydrogen, ammonia, etc.), chemical products, corrosive fluids (other than oxidizing fluids), and cryogenic fluids (LN₂, liquid air, LNG, LPG, etc.).

⚠ Not applicable

Type	Fluid name
Oxidizing acids	Nitric acid, concentrated sulphuric acid, hot sulphuric acid, mixed acids, chromic acid, etc.
Oxidizing salts	Nitrate, chlorate, hypochlorite, etc.
Halogen compounds	Bromine, fluorine, iodine, chlorine dioxide, etc.
Combustion promoting gas	Oxygen (pure oxygen)

Ordering Information

Molded Ring - Please specify ring ID, OD, height and number of rings.

Coil Form - Please specify nominal size and quantity.