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JAPANESE INDUSTRIAL STANDARD

Glossary of Terms for Packings and Gaskets

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Glossary of Terms for Packings and Gaskets

B 0116-1978

1. Scope

This Japanese Industrial Standard specifies terms related to the type, names and specifications for packings and gaskets, hereinafter referred to as the "terms".

The equivalent English is shown for reference.

Remark: The units given in { } in this standard are in accordance with the International System of Units (SI), and are appended for reference.

2. Classification

The terms shall be classified as follows:

(1) Terms Related to Type and Name

- (1.1) General
- (1.2) Formed packings
- (1.3) Gland packings
- (1.4) Oil seals
- (1.5) Mechanical seals
- (1.6) Gaskets
- (1.7) Miscellaneous

(2) Terms Related to Specifications

- (2.1) Terms related to dimension
- (2.2) Terms related to quality and performance
- (2.3) Terms related to test and inspection
- (2.4) Miscellaneous

Reference Standards:

JIS K 6301 Physical Testing Methods for Vulcanized Rubber

JIS R 3450 Asbestos Yarns and Twisted Ropes



Documents

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3. Numbers, Terms and Definitions

Numbers, terms and definitions shall be as given below:

(1) Terms Related to Type and Name(1.1) General

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1101	mippūsōchi	Generic term for devices used for preventing leakage of fluid or entrance of foreign matters.	sealing device
1102	shīru	Same as "mippūsōchi".	seal
1103	undōyō shīru	Generic term for seals used for sealing rotating or reciprocating parts.	dynamic seal
1104	koteiyō shīru	Generic term for seals used for sealing static parts, such as flanges for piping. Also called "seishiyō shīru".	static seal
1105	pakkin	Same as "undōyō shīru".	packing
1106	gasuketto	Same as "koteiyō shīru".	gasket
1107	hikinzoiku pakkin	Generic term for non-metallic packings.	non-metallic packing
1108	hikinzoiku gasuketto	Generic term for non-metallic gaskets.	non-metallic gasket
1109	semimetarikku pakkin	Generic term for packings made of combined metallic and non-metallic materials.	semi-metallic packing
1110	semimetarikku gasuketto	Generic term for gaskets made of combined metallic and non-metallic materials.	semi-metallic gasket
1111	kinzoiku pakkin	Generic term for metallic packings.	metallic packing
1112	kinzoiku gasuketto	Generic term for metallic gaskets.	metallic gasket
1113	serufu-taitoningu pakkin	Packings, which require no particular adjustment for mounting, such as oil seals.	self-tightening packing

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1114	serufushīru pakkin	Packings which can seal by virtue of the pressure of fluid to be sealed.	self-seal packing
1115	serufushīru gasuketto	Gaskets which can seal by virtue of the pressure of fluid to be sealed.	self-seal gasket
1116	jiku pakkin	Generic term for packing used in contact with shafts.	shaft packing
1117	roddo pakkin	Generic term for packing used in contact with rods (to be used) for reciprocating motion).	rod packing
1118	pisuton pakkin	Generic term for packing mounted on a piston which comes in contact with the cylinder (to be used for reciprocating motion).	piston packing
1119	puranjā pakkin	Generic term for packing mounted on the mating part moving relative to the plunger which comes in contact with the plunger (to be used for reciprocating motion).	plunger packing
1120	koiru pakkin	Spirally coiled packing material having a rectangular or circular cross-section from which packing is cut.	packing coil
1121	supairaru pakkin	Helically wound packing material having a rectangular or circular cross-section from which packing is cut.	packing spiral
1122	ekijō shīru	Generic term for liquid seal material that seals when applied to the surface to be sealed. Also called "SHĪRANTO".	fluid sealant

(1.2) Formed Packings

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1201	seikei pakkin	Generic term for packing made by forming with molds.	formed packing
1202	mōrudo pakkin	A kind of formed packing. Generic term for packing made by molding.	molded packing
1203	rippu pakkin	Formed packing having a lip such as cup packings, flange packings, V packings, U packings, oil seals, etc.	lip packing
1204	sukuīzu pakkin	Generic term for formed packing which are squeezed into place, such as O rings and square rings.	squeeze packing
1205	kappu pakkin	Piston packing of cup shape. A kind of formed packing that seal with the lip on the external diameter. Also called "ERU PAKKIN" or "SARA PAKKIN" (refer to Fig. 1205).	cup packing
1206	furandji pakkin	Flange type formed packing that seal with the lip on the internal diameter. Also called "JEI PAKKIN" or "HATTO PAKKIN" (refer to Fig. 1206).	flange packing
1207	bui pakkin	Ring formed packing having V-shaped cross-section. Also called "BUI RINGU" (refer to Fig. 1207).	V packing, V ring
1208	yū pakkin	Ring formed packing having U-shaped cross-section. Also called "YŪ RINGU" (refer to Fig. 1208).	U packing, U ring
1209	yū kappu pakkin	Formed packing of cup shape, whose cross-section is nearly of U shape (refer to Fig. 1209).	U-cup packing
1210	daburyu pakkin	Ring formed packing having W-shaped cross-section. Also called "DABURYŪ RINGU" (refer to Fig. 1210).	W packing, W ring
1211	ō ringu	Ring squeeze packing having a circular cross-section. Also used for gaskets.	O ring

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1212	kaku ringu	Ring squeeze packing having a rectangular cross-section. Also used for gaskets.	square ring

(1.3) Gland Packings

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1301	gurando pakkin	(1) Generic term for packings that generally have a rectangular cross-section and is used for packing in stuffing boxes. (2) Generic term for packing to be used for stuffing boxes.	gland packing
1302	burēdo pakkin	Packing made by braiding together asbestos, cotton, hemp, etc. to a rectangular or circular cross-section. The braiding includes braid over braid, interlocking braid, 8-carrier braid, etc.	braided packing
1303	sekimenburēdo pakkin	Braided packing made of asbestos yarn.	braided asbestos packing
1304	gurahaitoshori sekimenburēdo pakkin	Braided packing made of asbestos yarn treated with heat-resistant lubricants and graphite.	graphited braided asbestos packing
1305	gurahaitonuri sekimenburēdo pakkin	Braided asbestos packing whose surfaces have been coated with graphite.	graphite-coated braided asbestos packing
1306	kotton pakkin	Generic term for packing made from cotton.	cotton packing
1307	gurīsushori kottonburēdo pakkin	Braided packing made from cotton yarn and thereafter treated with grease.	greased braided cotton packing
1308	gurīsushori furakkusu-burēdo pakkin	Braided packing made from flax yarn and thereafter treated with grease.	greased braided flax packing



No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1309	kinzokusen buredo pakkin	Braided packing made from metal wire.	braided metal-wire packing
1310	kinzokuhaku pakkin	Packing made by winding or combining metal foil ribbons.	metal foil packing
1311	watajō pakkin	Cotton-like gland packing.	cotton-like packing
1312	gomusekimennuno-maki kasanegata pakkin	Packing made by winding rubbered asbestos cloth to a rectangular or circular cross-section.	rubber asbestos-cloth packing
1313	gomumenpu sekisō pakkin	Packing made by alternately laminating cotton and rubber to make rectangular cross-section. The layered face is in contact with the shaft. Those laminated in a direction perpendicular to the shaft are called "AMAZON PAKKIN" (refer to Fig. 1313).	

(1.4) Oil Seals

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1401	oiru shīru	Seals that seal rotating or reciprocating parts by tightening them radially with the lip.	oil seal
1402	chiriyoike rippu (oirushīru no)	Lips used for preventing foreign matter from entering from the outside, such as the dust protectors on oil seals with dust protectors.	duster lip (of oil seal)
1403	baneiri gaishūgomu oirushīru	Oil seals composed of a lip using a spring and a metal ring, whose periphery is covered with rubber (refer to Fig. 1403).	embedded-case spring loaded oil seal
1404	baneiri gaishūkinzoku oirushīru	Oil seals composed of a lip using a spring and a metal ring, whose peripheral surface is the metal ring (refer to Fig. 1404).	metal-bonded-case spring loaded oil seal
1405	banenashi gaishūgomu oirushīru	Oil seals composed of a lip without spring and metal ring, whose peripheral surface is covered with rubber (refer to Fig. 1405).	embedded-case springless oil seal

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1406	banenashi gaishūkinzoku oirushīru	Oil seals composed of a lip without spring and metal ring, whose peripheral surface is made of a metal ring (refer to Fig. 1406).	metal-bonded-case springless oil seal
1407	baneiri gaishūgomu chiriyoketsuki oirushīru	Oil seals composed of a lip and metal ring using a spring and a dust protector without a spring, whose peripheral surface is covered with rubber (refer to Fig. 1407).	embedded-case spring loaded oil seal with duster lip
1408	baneiri gaishūkinzoku chiriyoketsuki oirushīru	Oil seals consisted of a lip and metal ring using a spring and a dust protector without a spring, whose peripheral surface is made of a metal ring (refer to Fig. 1408).	metal-bonded-case spring loaded oil seal with duster lip

(1.5) Mechanical Seals

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1501	tanmen shīru	Generic term for seals that seal rotating portions by the contact pressure between two planes almost perpendicular to the shaft. Also called "AKISHAL SHIRU".	end-face seal
1502	mekanikaru shīru	A kind of end-face seal, which is seal units having a buffer mechanism.	mechanical seal

(1.6) Gaskets

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1601	gasuketchingu	Generic term for gasket material made into sheets, spirals and coils, from which gaskets are cut out.	gasketing
1602	shīto gasuketchingu	Generic term for sheet gasketing, from which gaskets are cut out.	sheet gasketing

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1603	sekimenjointo shīto gasuketchingu	Sheet gasketing whose main ingredient is asbestos, and rubber of binder. Also simply called "SEKIMEN JOINTO SHITO".	compressed asbestos sheet gasketing
1604	gomushīto gasuketchingu	Sheet gasketing made from rubber. Also simply called "GOMU SHITO".	rubber sheet gasketing
1605	nunoiri gomushīto gasuketchingu	Sheet gasketing made from rubber into which cloth was inserted for reinforcement. Also simply called "NUNOIRI GOMU SHITO".	cloth-inserted rubber sheet gasketing
1606	gomubiki- sekimennuno shīto gasuketchingu	Sheet gasketing made from the material of rubber-coated asbestos cloth. Also simply called "GOMUBIKI SEKIMENNUNO SHITO".	rubber coated asbestos-cloth sheet gasketing
1607	kanaamiiri sekimenjointo shīto gasuketchingu	Compressed asbestos sheet gasketing with wire netting inserted for reinforcement. Also simply called "KANAAMIIRI SEKIMENJOINT SHITO".	compressed asbestos sheet gasketing reinforced with wire-netting
1608	oirushīto gasuketchingu	Paper treated with oilproof and solvent-resistant impregnant. Also simply called "OIRU SHITO".	
1609	faibashīto gasuketchingu	Sheet gasketing made from processed paper. Also simply called "FAIBA SHITO".	fiber sheet gasketing
1610	hiragata gasuketto	Generic term for gaskets used flat as it is, after being cut from a gasketing sheet.	flat gasket
1611	kinzoku hiragata gasuketto	Flat gaskets made of metal.	solid-metal flat gasket
1612	orikasanegata gasuketto	Generic term for gaskets made from plate material which has been folded (refer to Fig. 1612).	folded gasket
1613	sekimennuno orikasanegata gasuketto	Gaskets made from rubber-coated asbestos cloth which has been folded.	asbestos-cloth folded gasket

No.	Term in Romanized Japanese	Definition	Equivalent English (given for reference)
1614	jakettogata gasuketto	Generic term for gaskets whose core is wholly or partially coated with materials, such as metal, synthetic resin, etc. (refer to Figs. 1615 and 1616).	jacketed gasket
1615	metaru-jakettogata gasuketto	Jacketed gaskets made from heat-resistant materials, such as asbestos or others, coated with metal. Include entirely covered, semi-covered, double covered, corrugatedly covered, round covered, internal and external periphery covered gaskets (refer to Fig. 1615).	metal-jacketed gasket
1616	purasuchikku-jakettogata gasuketto	Jacketed gaskets made from felt asbestos or other materials, coated with synthetic resin (refer to Fig. 1616).	plastic jacketed gasket
1617	uzumakigata gasuketto	Plate ring gaskets so made that a corrugated tape metal plate and asbestos, or synthetic resin are overlapped and wound spirally (refer to Fig. 1617).	spiral wound gasket
1618	namigata gasuketto	Gaskets made from plates corrugated into concentric circle shape (refer to Fig. 1618).	corrugated gasket
1619	sekimen'itoiri kinzokunamigata gasuketto	Corrugated metal gaskets with asbestos cord cemented into the corrugations of concentric circle shape. (refer to Fig. 1619)	corrugated metal gasket with asbestos-cord cemented in corrugations
1620	nokohagata gasuketto	Gaskets made from metal plate whose edges have been cut to look like saw teeth.	serrated gasket
1621	zenmengata gasuketto	Gaskets having exactly the same sized shape as the surface to be jointed to.	full-face gasket
1622	ringu gasuketto	Ring-shaped gaskets attached to the inside of bolts of a flange or other ring-shaped gasket.	ring gasket