BUREAU OF INDIAN STANDARDS

Program of Work

MED 30: Gaskets And Packing

Scope: Formulation of standards and specifications for radial shaft seals, gaskets and packings made

from asbestos, cork, rubber, paper, rope, metal, elastomers and combinations thereof.

Liaison:

		Publi	shed Standards		
S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10008 : 1992	Beater addition jointings -	July, 2021	2	Indigenous
	Reviewed In: 2021	Specification (First Revision)			
2	IS 10008 : 2024	Beater Addition Jointings		-	Indigenous
	***	Specification			
3	IS 10330 : 2024	Formed Asbestos Packing Rings		-	Indigenous
		for High Pressure and High			
4	IS 10330 : 1982	Temperature Valves Specification Specification for formed asbestos	October, 2019		Indigenous
4		packing rings for high pressure and	October, 2019	-	margenous
	Reviewed III . 2019	high temperature valves			
5	IS 10864 : 2024	Metal jacketed gaskets for pipe		_	Indigenous
	15 10001. 2021	flanges and heat exchanger flanges			margenous
		- Specification Second Revision			
6	IS 10864 : 2013	Metal jacketed gaskets for pipe	June, 2019	-	Indigenous
	Reviewed In: 2019	flanges and heat exchanger flanges			
		- Specification (First Revision)			
7	IS 11149 : 1984	Specification for rubber gaskets	October, 2019	1	Indigenous
	Reviewed In: 2019				
8		Ring type joint gaskets and grooves	February, 2022	-	Indigenous
	Reviewed In: 2022	for pipe flanges - Specification	0.1.2010		Y 11
9	IS 14539 : 1998	Insulation mill board -	October, 2019	-	Indigenous
10	Reviewed In : 2019	Specification Patern shoft line True and a	October, 2020	1	To di con occo
10	IS 15545 (Part 1): 2015	Rotary shaft lip - Type seals incorporating thermoplastic sealing	October, 2020	1	Indigenous
	ISO 16589-1 : 2011	elements: Part 1 nominal			
	Reviewed In : 2020	dimensions and tolerances (First			
	Reviewed III : 2020	Revision)			
11	IS 15545 (Part 2):	Rotary shaft lip - Type seals		-	Identical under dual
		incorporating thermoplastic sealing			numbering
	IS 15545 (Part 2) /I	elements: Part 2 vocabulary			
	IS 15545 (Part 2) /I				
12	IS 15545 (Part 3):	Rotary shaft lip - Type seals	October, 2020	-	Indigenous
		incorporating thermoplastic sealing			
	ISO 16589-3 : 2011	elements: Part 3 storage, handling			
12	Reviewed In : 2020	and installation (First Revision)			Y 1'
13	IS 15545 (Part 4):	Rotary shaft lip-type seals		-	Indigenous
	2021	incorporating thermoplastic sealing elements-Part 4: Performance test			
		elements-Part 4: Performance test			

		procedures (Adoption of ISO 16589-4:2011)			
14	IS 15545 (Part 5): 2017 ISO 16589-5: 2011 Reviewed In: 2021	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements: Part 5 identification of visual imperfections (First	December, 2021	-	Identical under dual numbering
15	ISO 16589-5:2011 IS 16916 : 2018	Revision) Polytetrafluoroethylene (PTFE)	March, 2024		Indigenous
	Reviewed In : 2024	gasket materials	March, 2024	-	margenous
16	IS 17796 : 2023	Gasket and Packings Compressed		-	Indigenous
		Non Asbestos Fibre CNAF based			
		Gasket Jointing Sheets			
		Specification			
17	IS 17891 (Part 1):	Fluid power systems O-rings Part		-	Identical under single
	2023	1: Inside diameters cross-sections			numbering
	ISO 3601-1 ISO 3601-1	tolerances and designation codes			
18	IS 17891 (Part 2):	Fluid power systems O-rings Part		 	Identical under single
	2023	2: Housing dimensions for general			numbering
	ISO 3601-2:2016	applications			
	ISO 3601-2:2016	Tr in it			
19	IS 17891 (Part 3):	Fluid power systems O-rings Part		-	Identical under single
	2023	3: Quality acceptance criteria			numbering
	ISO 3601-3:2005				
	ISO 3601-3:2005				
20	IS 17891 (Part 4):	Fluid power systems O-rings Part		-	Identical under single
	2023	4: Anti-extrusion rings back-up			numbering
	ISO 3601-4:2008 ISO 3601-4:2008	rings			
21	IS 17891 (Part 5):	Fluid Power Systems â€" O-Rings		_	Identical under dual
-1	2023	Part 5 Specification of Elastomeric			numbering
	ISO 3601-5:2015	Materials for Industrial			
	ISO 3601-5:2015	Applications			
22	IS/ISO 1997 : 2018	Granulated cork and cork powder		-	Identical under single
	ISO 1997	Classification properties and			numbering
	ISO 1997	packing			
23	IS/ISO 2030 : 2018	Granulated cork Size analysis by		-	Identical under single
	ISO 2030	mechanical sieving			numbering
24	ISO 2030 IS/ISO 2031 : 2015	Granulated cork - Determination of	May, 2023		Identical under single
24	ISO 2031 : 2015	apparent bulk density	Way, 2023	_	numbering
	Reviewed In: 2023				numoering
L	ISO 2031:1991				
25	IS/ISO 2067 : 2019	Granulated cork broken cork and	March, 2024	-	Identical under single
	ISO 2067	crushed cork Sampling for the			numbering
	Reviewed In: 2024	determination of moisture content			
25	ISO 2067		M 1 2022	-	71 (1 1 1 1
26		Granulated cork - Determination of	March, 2023	-	Identical under single
	ISO 2190 : 2016 Reviewed In : 2023	moisture content			numbering
	ISO 2190:2016				
27	IS 2712 : 2024	Gaskets and Packings Compressed		_	Indigenous
-		Asbestos Fibre Jointing			
		Specification		<u> </u>	
28	IS 2712 : 1998	Gaskets and packings -	October, 2020	-	Indigenous
	Reviewed In: 2020	Compressed asbestos fibre jointing			
20	10 4052 (B. 14)	- Specification (Third Revision)	0.41. 2010	-	7 "
29	IS 4253 (Part 1):	Cork composition sheets -	October, 2019	-	Indigenous

ISO 4708 material — Test methods ISO 4708 35 IS/ISO 4709 : 2017 Composition cork — Gasket ISO 4709 material — Classification system, ISO 4709 requirements, sampling, packaging, and marking 36 IS 5414 : 2024 GASKETS AND PACKINGS	Indigenous Indigenous Indigenous Indigenous Indigenous Intical under single numbering Intical under single numbering
2008 Specification: Part 2 cork and rubber (Second Revision) 31 IS 4687 : 1995 Gaskets and packings - Gland packings - Gland packings asbestos - Specification (Second Revision) February, 2022 - 32 IS 4688 : 2024 Proofed Cotton Duck Gland Packing â€" Specification (First Revision) - 33 IS 4688 : 1968 Specification for proofed cotton duck gland packing October, 2019 - 34 IS/ISO 4708 : 2017 Composition cork— Gasket material — Test methods - Ider 35 IS/ISO 4709 : 2017 Composition cork —Gasket material — Classification system, requirements, sampling, packaging, and marking - Ider 36 IS 5414 : 2024 GASKETS AND PACKINGS - -	Indigenous Indigenous Indigenous Intical under single numbering Intical under single
Reviewed In: 2019 rubber (Second Revision) 31 IS 4687: 1995 Gaskets and packings - Gland packings - Gland packings asbestos - Specification (Second Revision) February, 2022 - 32 IS 4688: 2024 Proofed Cotton Duck Gland Packing â€" Specification (First Revision) - 33 IS 4688: 1968 Specification for proofed cotton duck gland packing October, 2019 - 34 IS/ISO 4708: 2017 Composition cork—Gasket material — Test methods - Ider 35 IS/ISO 4709: 2017 Composition cork—Gasket material — Classification system, requirements, sampling, packaging, and marking - Ider 36 IS 5414: 2024 GASKETS AND PACKINGS - -	Indigenous Indigenous Intical under single numbering Intical under single
31	Indigenous Indigenous Intical under single numbering ntical under single
Reviewed In: 2022 packings asbestos - Specification (Second Revision) 32 IS 4688: 2024 Proofed Cotton Duck Gland Packing â€" Specification (First Revision) 33 IS 4688: 1968 Specification for proofed cotton duck gland packing 34 IS/ISO 4708: 2017 Composition cork—Gasket material — Test methods ISO 4708 ISO 4709: 2017 Composition cork —Gasket material — Classification system, requirements, sampling, packaging, and marking 36 IS 5414: 2024 GASKETS AND PACKINGS	Indigenous Indigenous Intical under single numbering Intical under single
32 IS 4688 : 2024 Proofed Cotton Duck Gland Packing â€" Specification (First Revision) - 33 IS 4688 : 1968 Reviewed In : 2019 Specification for proofed cotton duck gland packing October, 2019 - 34 IS/ISO 4708 : 2017 ISO 4708 material — Test methods ISO 4708 - Ider 35 IS/ISO 4709 : 2017 ISO 4709 : 2017 material — Classification system, requirements, sampling, packaging, and marking - Ider 36 IS 5414 : 2024 GASKETS AND PACKINGS - -	Indigenous ntical under single numbering ntical under single
32 IS 4688 : 2024 Proofed Cotton Duck Gland Packing â€" Specification (First Revision) - 33 IS 4688 : 1968 Reviewed In : 2019 Specification for proofed cotton duck gland packing October, 2019 - 34 IS/ISO 4708 : 2017 ISO 4708 Composition cork—Gasket material — Test methods - Identification system, requirements, sampling, packaging, and marking - Identification system, requirements, sampling, packaging, and marking - - Identification system, requirements, sampling, packaging, and marking -	Indigenous ntical under single numbering ntical under single
Packing â€" Specification (First Revision) 33 IS 4688 : 1968 Specification for proofed cotton duck gland packing 34 IS/ISO 4708 : 2017 Composition cork—Gasket material — Test methods 35 IS/ISO 4709 : 2017 Composition cork —Gasket material — Classification system, ISO 4709 requirements, sampling, packaging, and marking 36 IS 5414 : 2024 GASKETS AND PACKINGS	Indigenous ntical under single numbering ntical under single
Revision) 33 IS 4688: 1968 Specification for proofed cotton Reviewed In: 2019 duck gland packing 34 IS/ISO 4708: 2017 Composition cork—Gasket ISO 4708 material — Test methods ISO 4708 35 IS/ISO 4709: 2017 Composition cork —Gasket ISO 4709 material — Classification system, ISO 4709 requirements, sampling, packaging, and marking 36 IS 5414: 2024 GASKETS AND PACKINGS	ntical under single numbering
33 IS 4688 : 1968 Specification for proofed cotton Reviewed In : 2019 duck gland packing 34 IS/ISO 4708 : 2017 Composition cork—Gasket ISO 4708 ISO 4708 Sign 4708 Sign 4709 Sign 4709	ntical under single numbering
Reviewed In: 2019 duck gland packing 34 IS/ISO 4708: 2017 Composition cork—Gasket ISO 4708 material — Test methods ISO 4708 35 IS/ISO 4709: 2017 Composition cork —Gasket ISO 4709 material — Classification system, ISO 4709 requirements, sampling, packaging, and marking 36 IS 5414: 2024 GASKETS AND PACKINGS	ntical under single numbering
34 IS/ISO 4708 : 2017 Composition cork— Gasket ISO 4708 material — Test methods ISO 4708 35 IS/ISO 4709 : 2017 Composition cork —Gasket ISO 4709 material — Classification system, ISO 4709 requirements, sampling, packaging, and marking 36 IS 5414 : 2024 GASKETS AND PACKINGS	numbering ntical under single
ISO 4708 material — Test methods 35 IS/ISO 4709 : 2017 Composition cork —Gasket ISO 4709 material — Classification system, ISO 4709 requirements, sampling, packaging, and marking 36 IS 5414 : 2024 GASKETS AND PACKINGS	numbering ntical under single
ISO 4708 35 IS/ISO 4709 : 2017 Composition cork —Gasket ISO 4709 material — Classification system, ISO 4709 requirements, sampling, packaging, and marking 36 IS 5414 : 2024 GASKETS AND PACKINGS	ntical under single
35 IS/ISO 4709 : 2017 Composition cork —Gasket ISO 4709 material — Classification system, ISO 4709 requirements, sampling, packaging, and marking 36 IS 5414 : 2024 GASKETS AND PACKINGS	
ISO 4709 material — Classification system, requirements, sampling, packaging, and marking 36 IS 5414 : 2024 GASKETS AND PACKINGS	
ISO 4709 requirements, sampling, packaging, and marking 36 IS 5414 : 2024 GASKETS AND PACKINGS -	numbering
and marking -	l l
36 IS 5414 : 2024 GASKETS AND PACKINGS -	
	Indigenous
GLAND PACKING JUTE AND	
HEMP SPECIFICATION Second	
Revision	
37 IS 5414: 1995 Gaskets and packings - Gland February, 2022 -	Indigenous
Reviewed In: 2022 packing jute and hemp -	
Specification (First Revision)	
38 IS 5566 : 2024 VEGETABLE FIBRE BASE -	Indigenous
JOINTING MATERIAL	8-
SPECIFICATION	
39 IS 5566: 1970 Specification for vegetable fibre October, 2019 -	Indigenous
Reviewed In: 2019 base jointing material	8-
40 IS 5569: 1970 Specification for cork and cellulose October, 2019 -	Indigenous
Reviewed In: 2019 base jointing material	8-
41 IS 5569 : 2024 Cork and Cellulose Base Jointing -	Indigenous
Material - Specification (First	S
Revision)	
	ntical under single
2007 incorporating elastomeric sealing	numbering
Reviewed In: 2019 elements: Part 1 nominal	
ISO 6194 : PART 1 : dimensions and tolerances	
2007	
43 IS/ISO 6194-2: Rotary shaft lip - Type seals October, 2021 -	Indigenous
2009 incorporating elastomeric sealing	
ISO 6194-2 : 2009 elements: Part 2 vocabulary	
Reviewed In: 2021	
	ntical under single
2009 Incorporating Elastomeric Sealing	numbering
ISO 6194-3 : 2009 Elements Part 3 Storage , Handling	numocing
Reviewed In: 2022 and Installation	
abcd and histaliation	
	ntical under single
2009 Incorporating Elastomeric Sealing	
ISO 6194-4 : 2009 Elements Part 4 Perormance Test	numbering
Reviewed In : 2022 Procedures	
abcd A6 IS/ISO 6104.5 . Determ Sheft Lin Tune Soole	Indiana
46 IS/ISO 6194-5: Rotary-Shaft Lip-Type Seals	Indigenous
2008 Incorporating Elastomeric Sealing ISO 6194-5: 2008 Elements Part 5 Identification of	
ISO 6194-5 : 2008 Elements Part 5 Identification of	

		Visual Imperfections			
47	IS 6210 : 1979	Method of test for stress relaxation	October, 2019	-	Indigenous
	Reviewed In: 2019	of gasket material (First Revision)			
48	IS 6210 : 2024	Stress Relaxation of Gasket		-	Indigenous
		Material â€" Method of Test			
		(Second Revision)			
49	IS 7714 : 1975	Method of sealability test for	October, 2019	-	Indigenous
	Reviewed In: 2019	gasket materials			
50	IS 7719 : 2024	Metallic Spiral Wound Gaskets		-	Indigenous
		â€" Specification (Second			
		Revision)			
51	IS 7719 : 2013	Metallic spiral wound gaskets -	June, 2019	-	Indigenous
	Reviewed In: 2019	Specification (First Revision)			
52	IS 9066 : 2024	Lubricated Cotton Gland Packings		-	Indigenous
		Specification			
53	IS 9066 : 1979	Specification for lubricated cotton	October, 2019	-	Indigenous
	Reviewed In: 2019	gland packings			

Standards under Development

	Projects Approved				
SI. No.	SI. No. Doc No. Title				
	No Records Found				

	Preliminary Draft Standards				
SI. No.	Doc No.	Title			
1	MED 30 (22866)	Gasket and packing Glossary of terms			

	Drafts Standards in WC Stage				
SI. No.	SI. No. Doc No. Title				
	No Records Found				

		Draft Standards Completed WC Stage
SI. No.	Doc No.	Title
1	MED 30 (19159)	GASKETS AND PACKINGS GLAND PACKINGS ASBESTOS SPECIFICATION Third
		Revision
2	MED 30 (21047)	Insulation Mill Board Specification
3	MED 30 (25135)	POLYTETRAFLUOROETHYLENE PTFE GASKET MATERIALS First Revision

Finalized Draft Indian Standard					
SI. No.	SI. No. Doc No. Title				
	No Records Found				

	Finalized Draft Indian Standards under Print		
SI. No.	Doc No.	Title	
1	MED 30 (22221) Revision	Rubber Gaskets Specification	
	of: IS 11149:1984		

Total Published Standards:42 Total Standards Under development:5

Aspect Wise Report

Product: 24
Code of Practices: 2
Methods of Test: 11
Terminology: 2
Dimensions: 3
System Standard: 0
Safety Standard: 0
Others: 0

Service Specification : 0 Process Specification : 0 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 14538 (Part 1): 1998	Gaskets and packings Part 1 composition cork - Specification
	Reviewed In: 2019	
2	IS 14538 (Part 2): 1998	Gaskets and packings Part 2 composition cork - Test methods
	Reviewed In: 2019	
3	IS 5125 : 1987	Method of tests and performance rating for rotary shaft radial lip type seal units
	Reviewed In: 1997	
4	IS 5129 (Part 1): 2000	Rotary Shaft Lip Type Seals - Part 1 Nominal Dimensions and Tolerances
5	IS 5129 (Part 2): 2003	Rotary Shaft Radial Lip Type Seal - Part 2 Vocabulary
	ISO 6194-2	
	Reviewed In: 2014 ISO	
	6194-2:2009	
6	IS 5129 (Part 3): 2000	Rotary Shaft Lip Type Seals - Part 3 Storage Handling and Installation
	ISO 6194-3	
	Reviewed In: 2015 ISO	
	6194-3:2009	
7	IS 5129 (Part 4): 2006	Rotary Shaft Lip Type Seals - Part 4 Performance Test Procedures
	ISO 6194-4	
	Reviewed In: 2017 ISO	
	6194-4:2009	
8	IS 5129 (Part 5): 2000	Rotary shaft lip type seals Part 5 identification of visual imperfections
	ISO 6194-5	
	Reviewed In: 2020	
9	IS 9975 (Part 1): 1981	Specification for O Rings - Part I Dimensions
	Reviewed In: 2019	
10	IS 9975 (Part 2): 1984	Specification for O Rings - Part 2 Material Selection and Quality Acceptance Criteria
	Reviewed In: 2019	
11	IS 9975 (Part 3): 1984	Specification for O Rings - Part 3 Seal Housing Dimensions Tolerances and Design Criteria for
	Reviewed In: 2019	Standard Applications
12	IS 9975 (Part 4): 1984	Specification for O Rings - Part 4 Terminology and definition of terms
	Reviewed In: 2019	

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 10008 : 2024	Beater Addition Jointings Specification
2	IS 10330 : 2024	Formed Asbestos Packing Rings for High Pressure and High Temperature Valves Specification
3	IS 10864 : 2024	Metal jacketed gaskets for pipe flanges and heat exchanger flanges - Specification Second Revision
4	IS 11149 : 1984	Specification for rubber gaskets

	Reviewed In: 2019	
5	IS 13257 : 1992	Ring type joint gaskets and grooves for pipe flanges - Specification
	Reviewed In: 2022	
6	IS 14539 : 1998	Insulation mill board - Specification
	Reviewed In: 2019	
7	IS 15545 (Part 1): 2015	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements Part 1 nominal
	ISO 16589-1 : 2011	dimensions and tolerances First Revision
	Reviewed In: 2020	
8	IS 16916 : 2018	Polytetrafluoroethylene PTFE gasket materials
	Reviewed In: 2024	
9	IS 17796 : 2023	Gasket and Packings Compressed Non Asbestos Fibre CNAF based Gasket Jointing Sheets
	ISO 4628-7:2016	Specification
10	IS 17891 (Part 2): 2023	Fluid power systems O-rings Part 2 Housing dimensions for general applications
	ISO 3601-2:2016	
11	IS 17891 (Part 3): 2023	Fluid power systems O-rings Part 3 Quality acceptance criteria
	ISO 3601-3:2005	
	ISO 10534-2:2023	
12	IS 17891 (Part 5) : 2023	Fluid Power Systems O-Rings Part 5 Specification of Elastomeric Materials for Industrial
	ISO 3601-5:2015	Applications
	150 5001 5.2015	1 ipplications
13	IS/ISO 1997 : 2018	Granulated cork and cork powder Classification properties and packing
	ISO 1997	Proportion and parting
	IEC 60068-2-18:2017	
14	IS 2712 : 2024	Gaskets and Packings Compressed Asbestos Fibre Jointing Specification
	10 2712 . 2021	Capitoto and Fackings Compressed Fiscostos Fisio Containg Specification
15	IS 4253 (Part 1): 2008	Cork composition sheets - Specification Part 1 plain cork sheets Second Revision
	Reviewed In: 2019	
16	IS 4253 (Part 2): 2008	Cork composition sheets - Specification Part 2 cork and rubber Second Revision
	Reviewed In: 2019	
17	IS 4687 : 1995	Gaskets and packings - Gland packings asbestos - Specification Second Revision
	Reviewed In: 2022	
18	IS 4688 : 2024	Proofed Cotton Duck Gland Packing Specification First Revision
19	IS/ISO 4709 : 2017	Composition cork Gasket material Classification system requirements sampling packaging at
	ISO 4709	marking
	E303	
20	IS 5414 : 2024	GASKETS AND PACKINGS GLAND PACKING JUTE AND HEMP SPECIFICATION Sec
		Revision
21	IS 5566 : 2024	VEGETABLE FIBRE BASE JOINTING MATERIAL SPECIFICATION
22	IS 5569 : 2024	Cork and Cellulose Base Jointing Material - Specification First Revision
	15 55 57 . 202 .	Som and Consider East Continue in Specification 1 not be vision
23	IS 7719 : 2024	Metallic Spiral Wound Gaskets Specification Second Revision
	15,,17,2021	Spring Spring Country Specification Second Revision
24	IS 9066 : 2024	Lubricated Cotton Gland Packings Specification
<i>-</i> .	15 7000 . 2027	Dublicated Cotton Guard Lackings opecification