

## 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:**

#### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10008:2024	Beater Addition Jointings Specification		-	Indigenous
2	IS 10330:2024	Formed Asbestos Packing Rings for High Pressure and High Temperature Valves Specification		-	Indigenous
3	IS 10864:2024	Metal jacketed gaskets for pipe flanges and heat exchanger flanges - Specification Second Revision		-	Indigenous
4	IS 11149:2024	Rubber Gaskets - Specification		-	Indigenous
5	IS 13257:1992 <span style="color: green;">Reviewed In : 2022</span>	Ring type joint gaskets and grooves for pipe flanges - Specification	February, 2022	-	Indigenous
6	IS 14539:1998 <span style="color: green;">Reviewed In : 2019</span> Reaffirmed but not taken up for revision	Insulation mill board - Specification	October, 2019	-	Indigenous
7	IS 15545 (Part 1):2015 ISO 16589-1 : 2011 <span style="color: green;">Reviewed In : 2025</span>	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements: Part 1 nominal dimensions and tolerances (First Revision)	March, 2025	1	Indigenous
8	IS 15545 (Part 2):2021 IS 15545 (Part 2) /I <span style="color: green;">Reviewed In : 2025</span> <span style="color: green;">IS 15545 (Part 2) /I</span>	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements: Part 2 vocabulary	March, 2025	-	Identical under dual numbering
9	IS 15545 (Part 3):2015 ISO 16589-3 : 2011 <span style="color: green;">Reviewed In : 2025</span>	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements: Part 3 storage, handling and installation (First Revision)	March, 2025	-	Indigenous
10	IS 15545 (Part 4):2021 <span style="color: green;">Reviewed In : 2025</span>	Rotary shaft lip-type seals incorporating thermoplastic sealing elements-Part 4: Performance test procedures (Adoption of ISO 16589-4:2011)	March, 2025	-	Indigenous
11	IS 15545 (Part 5):2017	Rotary shaft lip - Type seals incorporating thermoplastic sealing	December, 2021	-	Identical under dual numbering

	ISO 16589-5 : 2011  Reviewed In : 2021  ISO 16589-5:2011	elements: Part 5 identification of visual imperfections (First Revision)			
12	IS 16916:2018  Reviewed In : 2024	Polytetrafluoroethylene (PTFE) gasket materials	March, 2024	-	Indigenous
13	IS 17796:2023	Gasket and Packings Compressed Non Asbestos Fibre CNAF based Gasket Jointing Sheets Specification		-	Indigenous
14	IS 17891 (Part 1):2023  ISO 3601-1  ISO 3601-1	Fluid power systems O-rings Part 1: Inside diameters cross-sections tolerances and designation codes		1	Identical under single numbering
15	IS 17891 (Part 2):2023  ISO 3601-2:2016  ISO 3601-2:2016	Fluid power systems O-rings Part 2: Housing dimensions for general applications		-	Identical under single numbering
16	IS 17891 (Part 3):2023  ISO 3601-3:2005  ISO 3601-3:2005	Fluid power systems O-rings Part 3: Quality acceptance criteria		-	Identical under single numbering
17	IS 17891 (Part 4):2023  ISO 3601-4:2008  ISO 3601-4:2008	Fluid power systems O-rings Part 4: Anti-extrusion rings back-up rings		-	Identical under single numbering
18	IS 17891 (Part 5):2023  ISO 3601-5:2015  ISO 3601-5:2015	Fluid Power Systems " O-Rings Part 5 Specification of Elastomeric Materials for Industrial Applications		-	Identical under dual numbering
19	IS 19455:2026	Gasket and packing Glossary of terms		-	
20	IS/ISO 1997:2018  ISO 1997  ISO 1997	Granulated cork and cork powder Classification properties and packing		-	Identical under single numbering
21	IS/ISO 2030:2018  ISO 2030  ISO 2030	Granulated cork Size analysis by mechanical sieving		-	Identical under single numbering
22	IS/ISO 2031:2015  ISO 2031 : 2015  Reviewed In : 2023  ISO 2031:1991	Granulated cork - Determination of apparent bulk density	May, 2023	-	Identical under single numbering
23	IS/ISO 2067:2019  ISO 2067  Reviewed In : 2024  ISO 2067	Granulated cork broken cork and crushed cork Sampling for the determination of moisture content	March, 2024	-	Identical under single numbering
24	IS/ISO 2190:2016  ISO 2190 : 2016  Reviewed In : 2023  ISO 2190:2016	Granulated cork - Determination of moisture content	March, 2023	-	Identical under single numbering
25	IS 2712:2024	Gaskets and Packings Compressed Asbestos Fibre Jointing Specification		-	Indigenous
26	IS 4253 (Part 1):2008  Reviewed In : 2024	Cork composition sheets - Specification: Part 1 plain cork sheets (Second Revision)	December, 2024	-	Indigenous
27	IS 4253 (Part 2):2008  Reviewed In : 2024	Cork composition sheets - Specification: Part 2 cork and rubber (Second Revision)	December, 2024	2	Indigenous

28	IS 4687:2025	GASKETS AND PACKINGS GLAND PACKINGS ASBESTOS SPECIFICATION Third Revision		-	Indigenous
29	IS 4688:2024	Proofed Cotton Duck Gland Packing â€” Specification (First Revision)		-	Indigenous
30	IS/ISO 4708:2017 ISO 4708 ISO 4708	Composition cork— Gasket material — Test methods		-	Identical under single numbering
31	IS/ISO 4709:2017 ISO 4709 ISO 4709	Composition cork —Gasket material — Classification system, requirements, sampling, packaging, and marking		-	Identical under single numbering
32	IS 5414:2024	GASKETS AND PACKINGS GLAND PACKING JUTE AND HEMP SPECIFICATION Second Revision		-	Indigenous
33	IS 5566:2024	VEGETABLE FIBRE BASE JOINTING MATERIAL SPECIFICATION		-	Indigenous
34	IS 5569:2024	Cork and Cellulose Base Jointing Material - Specification (First Revision)		-	Indigenous
35	IS/ISO 6194-1:2007 Reviewed In : 2024 ISO 6194 : PART 1 : 2007	Rotary shaft lip - Type seals incorporating elastomeric sealing elements: Part 1 nominal dimensions and tolerances	October, 2024	-	Identical under single numbering
36	IS/ISO 6194-2:2009 ISO 6194-2 : 2009 Reviewed In : 2021	Rotary shaft lip - Type seals incorporating elastomeric sealing elements: Part 2 vocabulary	October, 2021	-	Indigenous
37	IS/ISO 6194-3:2009 ISO 6194-3 : 2009 Reviewed In : 2022 abcd	Rotary Shaft Lip-Type Seals Incorporating Elastomeric Sealing Elements Part 3 Storage , Handling and Installation	January, 2022	-	Identical under single numbering
38	IS/ISO 6194-4:2009 ISO 6194-4 : 2009 Reviewed In : 2022 abcd	Rotary Shaft Lip-Type Seals Incorporating Elastomeric Sealing Elements Part 4 Performance Test Procedures	January, 2022	-	Identical under single numbering
39	IS/ISO 6194-5:2008 ISO 6194-5 : 2008 Reviewed In : 2025	Rotary-Shaft Lip-Type Seals Incorporating Elastomeric Sealing Elements Part 5 Identification of Visual Imperfections	March, 2025	-	Indigenous
40	IS 6210:2024	Stress Relaxation of Gasket Material â€” Method of Test (Second Revision)		-	Indigenous
41	IS 7714:1975 Reviewed In : 2024	Method of sealability test for gasket materials	December, 2024	-	Indigenous
42	IS 7719:2024	Metallic Spiral Wound Gaskets â€” Specification (Second Revision)		-	Indigenous
43	IS 9066:2024	Lubricated Cotton Gland Packings Specification		-	Indigenous

### Standards under Development

### Projects Approved

SI. No.	Doc No.	Title
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No Records Found

### Preliminary Draft Standards

SI. No.	Doc No.	Title
No Records Found		

### Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	MED 30 (33209)	Cork composition sheets - Specification Part 1 plain cork sheets Second Revision

### Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	MED 30 (28092)	Ring Type Joint Gaskets and Grooves for Pipe Flanges Specification

### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
No Records Found		

### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	MED 30 (22866)	Gasket and packing Glossary of terms
2	MED 30 (27269) Amendment of: IS 7714:1975	Method of Sealability Test for Gasket Materials
3	MED 30 (27404)	Gaskets and Packings Oxidation of Expanded Graphite Methods of Test
4	MED 30 (27731)	Non-Asbestos Beater Addition Jointing Specification
5	MED 30 (27733)	Gasket and Packing Flexible Graphite Material Specification
6	MED 30 (28577)	Gasket and Packing Wire Reinforced Asbestos Jointing Material Specification
7	MED 30 (32819)	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements Part 1 nominal dimensions and tolerances First Revision
8	MED 30 (32827)	Fluid power systems O-rings Part 1 Inside diameters cross-sections tolerances and designation codes
9	MED 30 (32837)	Fluid power systems O-rings Part 3 Quality acceptance criteria

Total Published Standards:43 Total Standards Under development:11

### 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 : 1

### Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
No Records Found		

1	IS 14538 (Part 1):1998 Reviewed In : 2019	Gaskets and packings Part 1 composition cork - Specification
2	IS 14538 (Part 2):1998 Reviewed In : 2019	Gaskets and packings Part 2 composition cork - Test methods
3	IS 5125:1987 Reviewed In : 1997	Method of tests and performance rating for rotary shaft radial lip type seal units
4	IS 5129 (Part 1):2000	Rotary Shaft Lip Type Seals - Part 1 Nominal Dimensions and Tolerances
5	IS 5129 (Part 2):2003 ISO 6194-2 Reviewed In : 2014 ISO 6194-2:2009	Rotary Shaft Radial Lip Type Seal - Part 2 Vocabulary
6	IS 5129 (Part 3):2000 ISO 6194-3 Reviewed In : 2015 ISO 6194-3:2009	Rotary Shaft Lip Type Seals - Part 3 Storage Handling and Installation
7	IS 5129 (Part 4):2006 ISO 6194-4 Reviewed In : 2017 ISO 6194-4:2009	Rotary Shaft Lip Type Seals - Part 4 Performance Test Procedures
8	IS 5129 (Part 5):2000 ISO 6194-5 Reviewed In : 2020	Rotary shaft lip type seals Part 5 identification of visual imperfections
9	IS 9975 (Part 1):1981 Reviewed In : 2019	Specification for O Rings - Part I Dimensions
10	IS 9975 (Part 2):1984 Reviewed In : 2019	Specification for O Rings - Part 2 Material Selection and Quality Acceptance Criteria
11	IS 9975 (Part 3):1984 Reviewed In : 2019	Specification for O Rings - Part 3 Seal Housing Dimensions Tolerances and Design Criteria for Standard Applications
12	IS 9975 (Part 4):1984 Reviewed In : 2019	Specification for O Rings - Part 4 Terminology and definition of terms

#### 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 11149:2024	Rubber Gaskets - Specification
5	IS 13257:1992 Reviewed In : 2022	Ring type joint gaskets and grooves for pipe flanges - Specification
6	IS 14539:1998 Reviewed In : 2019 Reaffirmed but not taken up for revision	Insulation mill board - Specification
7	IS 15545 (Part 1):2015 ISO 16589-1 : 2011 Reviewed In : 2025	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements Part 1 nominal dimensions and tolerances First Revision
8	IS 16916:2018 Reviewed In : 2024	Polytetrafluoroethylene PTFE gasket materials
9	IS 17796:2023 ISO 4628-7:2016	Gasket and Packings Compressed Non Asbestos Fibre CNAF based Gasket Jointing Sheets Specification
10	IS 17891 (Part 2):2023 ISO 3601-2:2016	Fluid power systems O-rings Part 2 Housing dimensions for general applications

11	IS 17891 (Part 3):2023 ISO 3601-3:2005 ISO 10534-2:2023	Fluid power systems O-rings Part 3 Quality acceptance criteria
12	IS 17891 (Part 5):2023 ISO 3601-5:2015	Fluid Power Systems O-Rings Part 5 Specification of Elastomeric Materials for Industrial Applications
13	IS/ISO 1997:2018 ISO 1997 IEC 60068-2-18:2017	Granulated cork and cork powder Classification properties and packing
14	IS 2712:2024	Gaskets and Packings Compressed Asbestos Fibre Jointing Specification
15	IS 4253 (Part 1):2008 <b>Reviewed In : 2024</b>	Cork composition sheets - Specification Part 1 plain cork sheets Second Revision
16	IS 4253 (Part 2):2008 <b>Reviewed In : 2024</b>	Cork composition sheets - Specification Part 2 cork and rubber Second Revision
17	IS 4687:2025	GASKETS AND PACKINGS GLAND PACKINGS ASBESTOS SPECIFICATION Third Revision
18	IS 4688:2024	Proofed Cotton Duck Gland Packing Specification First Revision
19	IS/ISO 4709:2017 ISO 4709 E303	Composition cork Gasket material Classification system requirements sampling packaging and marking
20	IS 5414:2024	GASKETS AND PACKINGS GLAND PACKING JUTE AND HEMP SPECIFICATION Second Revision
21	IS 5566:2024	VEGETABLE FIBRE BASE JOINTING MATERIAL SPECIFICATION
22	IS 5569:2024	Cork and Cellulose Base Jointing Material - Specification First Revision
23	IS 7719:2024	Metallic Spiral Wound Gaskets Specification Second Revision
24	IS 9066:2024	Lubricated Cotton Gland Packings Specification