

## 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 : 1992 <a href="#">Reviewed In : 2021</a>	Beater addition jointings - Specification (First Revision)	July, 2021	2	Indigenous
2	IS 10330 : 1982 <a href="#">Reviewed In : 2019</a>	Specification for formed asbestos packing rings for high pressure and high temperature valves	October, 2019	-	Indigenous
3	IS 10864 : 2013 <a href="#">Reviewed In : 2019</a>	Metal jacketed gaskets for pipe flanges and heat exchanger flanges - Specification (First Revision)	June, 2019	-	Indigenous
4	IS 11149 : 1984 <a href="#">Reviewed In : 2019</a>	Specification for rubber gaskets	October, 2019	1	Indigenous
5	IS 13257 : 1992 <a href="#">Reviewed In : 2022</a>	Ring type joint gaskets and grooves for pipe flanges - Specification	February, 2022	-	Indigenous
6	IS 14539 : 1998 <a href="#">Reviewed In : 2019</a>	Insulation mill board - Specification	October, 2019	-	Indigenous
7	IS 15545 (Part 1) : 2015 ISO 16589-1 : 2011 <a href="#">Reviewed In : 2020</a>	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements: Part 1 nominal dimensions and tolerances (First Revision)	October, 2020	1	Indigenous
8	IS 15545 (Part 2) : 2021 IS 15545 (Part 2) /I <a href="#">IS 15545 (Part 2) /I</a>	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements: Part 2 vocabulary		-	Identical under dual numbering
9	IS 15545 (Part 3) : 2015 ISO 16589-3 : 2011 <a href="#">Reviewed In : 2020</a>	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements: Part 3 storage, handling and installation (First Revision)	October, 2020	-	Indigenous
10	IS 15545 (Part 4) : 2021	Rotary shaft lip-type seals incorporating thermoplastic sealing elements-Part 4: Performance test procedures (Adoption of ISO 16589-4:2011)		-	Indigenous
11	IS 15545 (Part 5) : 2017 ISO 16589-5 : 2011 <a href="#">Reviewed In : 2021</a> <a href="#">ISO 16589-5:2011</a>	Rotary shaft lip - Type seals incorporating thermoplastic sealing elements: Part 5 identification of visual imperfections (First Revision)	December, 2021	-	Identical under dual numbering
12	IS 16916 : 2018	Polytetrafluoroethylene (PTFE)	March, 2024	-	Indigenous

	Reviewed In : 2024	gasket materials			
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		-	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/ISO 1997 : 2018 ISO 1997 ISO 1997	Granulated cork and cork powder Classification properties and packing		-	Identical under single numbering
20	IS/ISO 2030 : 2018 ISO 2030 ISO 2030	Granulated cork Size analysis by mechanical sieving		-	Identical under single numbering
21	IS/ISO 2031 : 2015 ISO 2031 : 2015 ISO 2031:1991	Granulated cork - Determination of apparent bulk density		-	Identical under single numbering
22	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
23	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
24	IS 2712 : 1998 Reviewed In : 2020	Gaskets and packings - Compressed asbestos fibre jointing - Specification (Third Revision)	October, 2020	-	Indigenous
25	IS 4253 (Part 1) : 2008 Reviewed In : 2019	Cork composition sheets - Specification: Part 1 plain cork sheets (Second Revision)	October, 2019	-	Indigenous
26	IS 4253 (Part 2) : 2008 Reviewed In : 2019	Cork composition sheets - Specification: Part 2 cork and rubber (Second Revision)	October, 2019	2	Indigenous
27	IS 4687 : 1995 Reviewed In : 2022	Gaskets and packings - Gland packings asbestos - Specification (Second Revision)	February, 2022	-	Indigenous
28	IS 4688 : 1968 Reviewed In : 2019	Specification for proofed cotton duck gland packing	October, 2019	-	Indigenous
29	IS/ISO 4708 : 2017 ISO 4708	Composition cork— Gasket material — Test methods		-	Identical under single numbering

	<b>ISO 4708</b>				
30	IS/ISO 4709 : 2017 ISO 4709 ISO 4709	Composition cork —Gasket material — Classification system, requirements, sampling, packaging, and marking		-	Identical under single numbering
31	IS 5414 : 1995 Reviewed In : 2022	Gaskets and packings - Gland packing jute and hemp - Specification (First Revision)	February, 2022	-	Indigenous
32	IS 5566 : 1970 Reviewed In : 2019	Specification for vegetable fibre base jointing material	October, 2019	-	Indigenous
33	IS 5569 : 1970 Reviewed In : 2019	Specification for cork and cellulose base jointing material	October, 2019	-	Indigenous
34	IS/ISO 6194-1 : 2007 Reviewed In : 2019 ISO 6194 : PART 1 : 2007	Rotary shaft lip - Type seals incorporating elastomeric sealing elements: Part 1 nominal dimensions and tolerances	October, 2019	-	Identical under single numbering
35	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
36	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
37	IS/ISO 6194-4 : 2009 ISO 6194-4 : 2009 Reviewed In : 2022 abcd	Rotary Shaft Lip-Type Seals Incorporating Elastomeric Sealing Elements Part 4 Perormance Test Procedures	January, 2022	-	Identical under single numbering
38	IS/ISO 6194-5 : 2008 ISO 6194-5 : 2008	Rotary-Shaft Lip-Type Seals Incorporating Elastomeric Sealing Elements Part 5 Identification of Visual Imperfections		-	Indigenous
39	IS 6210 : 1979 Reviewed In : 2019	Method of test for stress relaxation of gasket material (First Revision)	October, 2019	-	Indigenous
40	IS 7714 : 1975 Reviewed In : 2019	Method of sealability test for gasket materials	October, 2019	-	Indigenous
41	IS 7719 : 2013 Reviewed In : 2019	Metallic spiral wound gaskets - Specification (First Revision)	June, 2019	-	Indigenous
42	IS 9066 : 1979 Reviewed In : 2019	Specification for lubricated cotton gland packings	October, 2019	-	Indigenous

### Standards under Development

#### Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Preliminary Draft Standards

SI. No.	Doc No.	Title
1	MED 30 (17837)	NON-ASBESTOS BEATER ADDITION JOINTING SPECIFICATIONS
2	MED 30 (22866)	Gasket and packing Glossary of terms

### Drafts Standards in WC Stage

Sl. No.	Doc No.	Title
<i>No Records Found</i>		

### Draft Standards Completed WC Stage

Sl. No.	Doc No.	Title
1	MED 30 (18267)	SPECIFICATION FOR PROOFED COTTON DUCK GLAND PACKING
2	MED 30 (19159)	GASKETS AND PACKINGS GLAND PACKINGS ASBESTOS SPECIFICATION Third Revision
3	MED 30 (21047)	Insulation Mill Board Specification
4	MED 30 (21256)	CORK AND CELLULOSE BASE JOINTING MATERIAL SPECIFICATION
5	MED 30 (25135)	POLYTETRAFLUOROETHYLENE PTFE GASKET MATERIALS First Revision

### Finalized Draft Indian Standard

Sl. No.	Doc No.	Title
<i>No Records Found</i>		

### Finalized Draft Indian Standards under Print

Sl. No.	Doc No.	Title
1	MED 30 (15235) Revision of: IS 10864:2013	Metal jacketed gaskets for pipe flanges and heat exchanger flanges - Specification Second Revision
2	MED 30 (17936) Revision of: IS 7719:2013	METALLIC SPIRAL WOUND GASKETS SPECIFICATION
3	MED 30 (19160) Revision of: IS 5414:1995	GASKETS AND PACKINGS GLAND PACKING JUTE AND HEMP SPECIFICATION Second Revision
4	MED 30 (20815) Revision of: IS 9066:1979	Lubricated Cotton Gland Packings Specification
5	MED 30 (20862) Revision of: IS 6210:1979	Stress Relaxation of Gasket Material Method of Test
6	MED 30 (20864) Revision of: IS 10008:1992	Beater Addition Jointings Specification
7	MED 30 (21255) Revision of: IS 5566:1970	VEGETABLE FIBRE BASE JOINTING MATERIAL SPECIFICATION
8	MED 30 (21257) Revision of: IS 10330:1982	Formed Asbestos Packing Rings for High Pressure and High Temperature Valves Specification
9	MED 30 (21751) Revision of: IS 2712:1998	Gaskets and Packings Compressed Asbestos Fibre Jointing Specification
10	MED 30 (22221) Revision of: IS 11149:1984	Rubber Gaskets Specification

**Total Published Standards:42 Total Standards Under development:17**

### Aspect Wise Report

Product : 23  
Code of Practices : 2  
Methods of Test : 11  
Terminology : 2  
Dimensions : 3  
System Standard : 0  
Safety Standard : 0  
Others : 1  
Service Specification : 0  
Process Specification : 0  
Unclassified : 0

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

Sl. No.	IS No. & Year	Title
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**

Sl. No.	IS No. & Year	Title
1	IS 10008 : 1992 Reviewed In : 2021	Beater addition jointings - Specification First Revision
2	IS 10330 : 1982 Reviewed In : 2019	Specification for formed asbestos packing rings for high pressure and high temperature valves
3	IS 10864 : 2013 Reviewed In : 2019	Metal jacketed gaskets for pipe flanges and heat exchanger flanges - Specification First Revision
4	IS 11149 : 1984 Reviewed In : 2019	Specification for rubber gaskets
5	IS 13257 : 1992 Reviewed In : 2022	Ring type joint gaskets and grooves for pipe flanges - Specification
6	IS 14539 : 1998 Reviewed In : 2019	Insulation mill board - Specification
7	IS 15545 (Part 1) : 2015 ISO 16589-1 : 2011 Reviewed In : 2020	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	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	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 : 1998 Reviewed In : 2020	Gaskets and packings - Compressed asbestos fibre jointing - Specification Third Revision
15	IS 4253 (Part 1) : 2008 Reviewed In : 2019	Cork composition sheets - Specification Part 1 plain cork sheets Second Revision
16	IS 4253 (Part 2) : 2008 Reviewed In : 2019	Cork composition sheets - Specification Part 2 cork and rubber Second Revision
17	IS 4687 : 1995 Reviewed In : 2022	Gaskets and packings - Gland packings asbestos - Specification Second Revision
18	IS 4688 : 1968 Reviewed In : 2019	Specification for proofed cotton duck gland packing
19	IS/ISO 4709 : 2017 ISO 4709 E303	Composition cork Gasket material Classification system requirements sampling packaging and marking
20	IS 5566 : 1970 Reviewed In : 2019	Specification for vegetable fibre base jointing material
21	IS 5569 : 1970 Reviewed In : 2019	Specification for cork and cellulose base jointing material
22	IS 7719 : 2013 Reviewed In : 2019	Metallic spiral wound gaskets - Specification First Revision
23	IS 9066 : 1979 Reviewed In : 2019	Specification for lubricated cotton gland packings