

BUREAU OF INDIAN STANDARDS

Program of Work

MTD 6 : Pig iron and Cast iron Sectional Committee

Scope: Standardization in the field of pig iron, various types of cast iron castings
 Liaison: **ISO TC-25 (P): Cast irons and pig irons ISO TC-5 (P): Ferrous metal pipes and metallic fittings ISO TC-5 SC-2 (P): Cast iron pipes, fittings and their joints**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10207 : 1982 Reviewed In : 2020	Methods of sampling grey iron and malleable iron castings	February, 2020	-	Indigenous
2	IS 10292 : 1988 Reviewed In : 2022	Specification for dimensional requirements for rubber sealing rings for C.I.D joints in asbestos cement piping (First Revision)	March, 2022	-	Indigenous
3	IS 10299 : 1982 Reviewed In : 2020	Specification for cast iron saddle pieces for service connection from asbestos cement pressure pipes	February, 2020	-	Indigenous
4	IS 11606 : 1986 Reviewed In : 2019	Methods for sampling of cast iron pipes and fittings	December, 2019	-	Indigenous
5	IS 12820 : 2004 Reviewed In : 2020	Dimensional requirements of rubber gaskets for mechanical joints and push - On joints for use with cast iron pipes and fittings for carrying water, gas and sewage (First Revision)	July, 2020	1	Indigenous
6	IS 12987 : 1991 Reviewed In : 2019	Cast iron detachable joints for use with asbestos cement pressure pipes (Light Duty) - Specification	December, 2019	-	Indigenous
7	IS 12988 : 1991 Reviewed In : 2019	Rubber sealing rings for cid joints for light duty ac pipesdimensional requirements	December, 2019	-	Indigenous
8	IS 13382 : 2018 Reviewed In : 2024 ISO 2531	Cast iron specials for mechanical and push-on flexible joints for pressure pipes for water, gas and sewage - Specification (Second Revision)	January, 2024	-	Not Equivalent
9	IS 13502 : 2023	PIG IRON- SPECIFICATION		-	Indigenous
10	IS 14329 : 1995 Reviewed In : 2019 ISO 9147:1987	Malleable iron castings - Specification	December, 2019	-	Not Equivalent
11	IS 1536 : 2001 Reviewed In : 2021	Centrifugally cast (Spun) iron pressure pipes for water, gas and sewage - Specification (Fourth Revision)	March, 2021	5	Indigenous
12	IS 1536 : 2023	Centrifugally cast (spun) iron		-	Indigenous

		pressure pipes for water, gas and sewage $\frac{1}{2}$ Specification			
13	IS 1537 : 1976 Reviewed In : 2025 Reaffirmed but not taken up for revision ISO 6594	Specification for vertically cast iron pressure pipes for water, gas and sewage (First Revision)	February, 2025	7	Not Equivalent
14	IS 1538 : 1993 Reviewed In : 2024 ISO 6594	Cast iron fittings for pressure pipes for water, gas and sewage - Specification (Third Revision)	February, 2024	6	Not Equivalent
15	IS 15905 : 2011 Reviewed In : 2022	Hubless centrifugally cast (Spun) iron pipes, fittings and accessories - Spigot series - Specification	March, 2022	1	Indigenous
16	IS 15905 : 2024	Hubless Centrifugally Cast (Spun) Iron Pipes, Fittings and Accessories " Spigot Series " Specification (First Revision)		-	Indigenous
17	IS 1729 : 2023	SAND CAST IRON SPIGOT AND SOCKET PIPES, FITTINGS AND ACCESSORIES $\frac{1}{2}$ SPECIFICATION		-	Indigenous
18	IS 1865 : 1991 Reviewed In : 2020 ISO 1083:2018	Iron castings with spheroidal or nodular graphite - Specification (Third Revision)	February, 2020	-	Not Equivalent
19	IS 1879 : 2010 Reviewed In : 2020	Malleable cast iron pipe fittings - Specification (Third Revision)	July, 2020	5	Indigenous
20	IS 1956 (Part 7) : 1976 Reviewed In : 2021	Glossary of terms relating to iron and steel: Part 7 wrought iron (First Revision)	March, 2021	2	Indigenous
21	IS 2084 : 1991 Reviewed In : 2021 ISO/TR 15931	Code for designation of pig iron (Second Revision)	March, 2021	-	Not Equivalent
22	IS 210 : 2009 Reviewed In : 2020 ISO 185:2005	Grey iron castings - Specification (Fifth Revision)	February, 2020	-	Not Equivalent
23	IS 2749 : 1974 Reviewed In : 2020 ISO 2892:2007	Specification for austenitic iron castings (First Revision)	February, 2020	-	Not Equivalent
24	IS 3005 (Part 1) : 1979 Reviewed In : 2022 Reaffirmed but not taken up for revision	Specification for grey cast iron ingot moulds, stools and slag ladles: Part 1 bottom stools for large size ingot moulds weighing 8 tonnes and higher (First Revision)	March, 2022	1	Indigenous
25	IS 3005 (Part 2) : 1979 Reviewed In : 2020 Reaffirmed but not taken up for revision	Specification for grey cast iron ingot moulds, stools and slag ladles: Part 2 grey cast iron ingot moulds of mass more than eight tonnes (First Revision)	February, 2020	1	Indigenous
26	IS 3005 (Part 3) : 1982 Reviewed In : 2025 Reaffirmed but not taken up for revision	Specification for grey cast iron ingot moulds, stools and slag laddles: Part 3 grey cast iron ingot moulds of mass more than one tonne and up to eight tonnes (First Revision)	February, 2025	1	Indigenous
27	IS 3005 (Part 4) : 1984 Reviewed In : 2025	Specification for grey cast iron ingot moulds, stools and slag laddles: Part 4 grey cast iron ingot	February, 2025	1	Indigenous

	Reaffirmed but not taken up for revision	moulds of mass up to 1 tonne (First Revision)			
28	IS 3355 : 1974 Reviewed In : 2020	Specification for grey iron castings for elevated temperatures for non - Pressure containing parts (First Revision)	February, 2020	-	Indigenous
29	IS 3516 : 1966 Reviewed In : 2020	Specification for cast iron pipe flanges and flanged fittings for petroleum industry	February, 2020	1	Indigenous
30	IS 3989 : 2024	CENTRIFUGALLY CAST (SPUN) IRON SPIGOT AND SOCKET PIPES, FITTINGS AND ACCESSORIES $i_c/2$ SPECIFICATION (Fourth Revision)		-	Indigenous
31	IS 4771 : 1985 Reviewed In : 2020	Specification for abrasion - Resistant iron castings (Second Revision)	February, 2020	-	Indigenous
32	IS 5519 : 1979 Reviewed In : 2020	Deviations for untoleranced dimensions and mass of grey iron castings (First Revision)	February, 2020	-	Indigenous
33	IS 5531 : 2014 Reviewed In : 2020	Cast iron specials for asbestos cement pressure pipes for water and sewage - Specification (Third Revision)	February, 2020	-	Indigenous
34	IS 5787 : 1986 Reviewed In : 2021	Specification for spheroidal or nodular graphite iron castings for paper mill dryer rolls (First Revision)	March, 2021	1	Indigenous
35	IS 5788 : 1986 Reviewed In : 2020	Specification for iron castings with spheroidal or nodular graphite for pressure containing parts for use at elevated temperatures (First Revision)	February, 2020	1	Indigenous
36	IS 5789 : 1993 Reviewed In : 2020	Austenitic spheroidal graphite iron castings for pressure containing parts suitable for low - Temperature service - Specification (First Revision)	February, 2020	-	Indigenous
37	IS 6418 : 1971 Reviewed In : 2020	Specification for cast iron and malleable cast iron flanges for general engineering purposes	February, 2020	-	Indigenous
38	IS 6629 : 1972 Reviewed In : 2020	Specification for cast iron rolls	February, 2020	1	Indigenous
39	IS 7181 : 1986 Reviewed In : 2024 Reaffirmed but not taken up for revision	Specification for horizontally cast iron double flanged pipes for water, gas and sewage (First Revision)	December, 2024	5	Indigenous
40	IS 7520 : 1974 Reviewed In : 2020	Specification for corrosion - Resistant high silicon iron castings	February, 2020	-	Indigenous
41	IS 7925 : 1976 Reviewed In : 2021	Specification for low alloy types of abrasion - Resistant iron castings	March, 2021	-	Indigenous
42	IS 8329 : 2000 Reviewed In : 2020 ISO 2531:2009	Centrifugally cast (Spun) ductile iron pressure pipes for water, gas and sewage - Specification (Third Revision)	February, 2020	5	Not Equivalent
43	IS 8349 : 1977	Deviations for untoleranced	February, 2020	-	Indigenous

	Reviewed In : 2020	Dimensions of malleable iron castings			
44	IS 8350 : 1977 Reviewed In : 2020 Reaffirmed but not taken up for revision	Deviations for untoleranced dimensions of spheroidal or nodular graphite iron castings	February, 2020	1	Indigenous
45	IS 8794 : 1988 Reviewed In : 2022	Specification for cast iron detachable joints for use with asbestos cement pressure pipes (First Revision)	March, 2022	2	Indigenous
46	IS 9321 : 1979 Reviewed In : 2020	Specification for material for alloy cast iron valve seat inserts	February, 2020	-	Indigenous
47	IS 9523 : 2000 Reviewed In : 2020 ISO 2531:2009	Ductile iron fittings for pressure pipes for water, gas and sewage - Specification (First Revision)	February, 2020	6	Not Equivalent
48	IS 9630 : 1980 Reviewed In : 2021	Recommended practices for production of spheroidal graphite iron	March, 2021	2	Indigenous

Standards under Development

Projects Approved

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

Preliminary Draft Standards

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

Drafts Standards in WC Stage

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

Draft Standards Completed WC Stage

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

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	MTD 6 (25697)	Ductile iron fittings for pressure pipes for water gas and sewage - Specification First Revision Amendment - 7
2	MTD 6 (25698)	Centrifugally cast Spun ductile iron pressure pipes for water gas and sewage - Specification Third Revision Amendment - 6

Finalized Draft Indian Standards under Print

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

Total Published Standards:46 Total Standards Under development:2

Aspect Wise Report

Product : 35
 Code of Practices : 3
 Methods of Test : 0
 Terminology : 2
 Dimensions : 6
 System Standard : 0
 Safety Standard : 0
 Others : 0
 Service Specification : 0
 Process Specification : 0
 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 1230 : 1979	Cast iron rainwater pipes and fittings
2	IS 2107 : 1977	Whiteheart malleable iron castings
3	IS 2108 : 1977	Blackheart Malleable Iron Castings
4	IS 224 : 1979	Foundry pig iron for general purposes
5	IS 225 : 1969	Pig iron charcoal
6	IS 227 : 1954	Malleable iron castings
7	IS 2640 : 1977	Pearlitic Malleable Iron Castings
8	IS 2841 : 1978	Pig iron for special purposes
9	IS 2842 : 1980	Basic pig iron for steel marking purposes
10	IS 3486 : 1966 Reviewed In : 2006	Cast Iron Spigot And Socket Drain Pipes
11	IS 3684 : 1966	Metals for casting moveable types
12	IS 3896 (Part 1) : 1978 Reviewed In : 2014	Comparison of Indian and Overseas Standards for Iron Castings - Part I Grey Iron Castings
13	IS 3896 (Part 2) : 1985 Reviewed In : 2014	Comparison of Indian and Overseas Standards for Iron Castings - Part 2 Spheroidal or Nodular Graphite Iron Castings
14	IS 5020 : 1969	Hematite Pig Iron
15	IS 5021 : 1969	Acid-resisting High-silica Pig Iron
16	IS 6163 : 1978 Reviewed In : 2010	Centrifugally cast spun iron low pressure pipes for water gas and sewage
17	IS 6331 : 1987 Reviewed In : 2005	Automotive Grey Iron Castings

Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10299 : 1982 Reviewed In : 2020	Specification for cast iron saddle pieces for service connection from asbestos cement pressure pipes
2	IS 12987 : 1991	Cast iron detachable joints for use with asbestos cement pressure pipes Light Duty - Specification

	Reviewed In : 2019	
3	IS 13382 : 2018 Reviewed In : 2024 ISO 2531	Cast iron specials for mechanical and push-on flexible joints for pressure pipes for water gas and sewage - Specification Second Revision
4	IS 13502 : 2023 IEC 63203-406-1:2021	PIG IRON- SPECIFICATION
5	IS 14329 : 1995 Reviewed In : 2019 ISO 9147:1987	Malleable iron castings - Specification
6	IS 1536 : 2023	Centrifugally cast spun iron pressure pipes for water gas and sewage Specification
7	IS 1537 : 1976 Reviewed In : 2025 Reaffirmed but not taken up for revision ISO 6594	Specification for vertically cast iron pressure pipes for water gas and sewage First Revision
8	IS 1538 : 1993 Reviewed In : 2024 ISO 6594	Cast iron fittings for pressure pipes for water gas and sewage - Specification Third Revision
9	IS 15905 : 2024	Hubless Centrifugally Cast Spun Iron Pipes Fittings and Accessories Spigot Series Specification First Revision
10	IS 1729 : 2023	SAND CAST IRON SPIGOT AND SOCKET PIPES FITTINGS AND ACCESSORIES SPECIFICATION
11	IS 1865 : 1991 Reviewed In : 2020 ISO 1083:2018	Iron castings with spheroidal or nodular graphite - Specification Third Revision
12	IS 1879 : 2010 Reviewed In : 2020	Malleable cast iron pipe fittings - Specification Third Revision
13	IS 210 : 2009 Reviewed In : 2020 ISO 185:2005	Grey iron castings - Specification Fifth Revision
14	IS 2749 : 1974 Reviewed In : 2020 ISO 2892:2007	Specification for austenitic iron castings First Revision
15	IS 3005 (Part 1) : 1979 Reviewed In : 2022 Reaffirmed but not taken up for revision	Specification for grey cast iron ingot moulds stools and slag ladles Part 1 bottom stools for large size ingot moulds weighing 8 tonnes and higher First Revision
16	IS 3005 (Part 2) : 1979 Reviewed In : 2020 Reaffirmed but not taken up for revision	Specification for grey cast iron ingot moulds stools and slag ladles Part 2 grey cast iron ingot moulds of mass more than eight tonnes First Revision
17	IS 3005 (Part 3) : 1982 Reviewed In : 2025 Reaffirmed but not taken up for revision	Specification for grey cast iron ingot moulds stools and slag laddles Part 3 grey cast iron ingot moulds of mass more than one tonne and up to eight tonnes First Revision
18	IS 3005 (Part 4) : 1984 Reviewed In : 2025 Reaffirmed but not taken up for revision	Specification for grey cast iron ingot moulds stools and slag laddles Part 4 grey cast iron ingot moulds of mass up to 1 tonne First Revision
19	IS 3355 : 1974 Reviewed In : 2020	Specification for grey iron castings for elevated temperatures for non - Pressure containing parts First Revision
20	IS 3516 : 1966 Reviewed In : 2020	Specification for cast iron pipe flanges and flanged fittings for petroleum industry
21	IS 3989 : 2024	CENTRIFUGALLY CAST SPUN IRON SPIGOT AND SOCKET PIPES FITTINGS AND ACCESSORIES SPECIFICATION Fourth Revision
22	IS 4771 : 1985 Reviewed In : 2020	Specification for abrasion - Resistant iron castings Second Revision
23	IS 5531 : 2014	Cast iron specials for asbestos cement pressure pipes for water and sewage - Specification Third

	Reviewed In : 2020	Revision
24	IS 5787 : 1986 Reviewed In : 2021	Specification for spheroidal or nodular graphite iron castings for paper mill dryer rolls First Revision
25	IS 5788 : 1986 Reviewed In : 2020	Specification for iron castings with spheroidal or nodular graphite for pressure containing parts for use at elevated temperatures First Revision
26	IS 5789 : 1993 Reviewed In : 2020	Austenitic spheroidal graphite iron castings for pressure containing parts suitable for low - Temperature service - Specification First Revision
27	IS 6418 : 1971 Reviewed In : 2020	Specification for cast iron and malleable cast iron flanges for general engineering purposes
28	IS 6629 : 1972 Reviewed In : 2020	Specification for cast iron rolls
29	IS 7181 : 1986 Reviewed In : 2024 Reaffirmed but not taken up for revision	Specification for horizontally cast iron double flanged pipes for water gas and sewage First Revision
30	IS 7520 : 1974 Reviewed In : 2020	Specification for corrosion - Resistant high silicon iron castings
31	IS 7925 : 1976 Reviewed In : 2021	Specification for low alloy types of abrasion - Resistant iron castings
32	IS 8329 : 2000 Reviewed In : 2020 ISO 2531:2009	Centrifugally cast Spun ductile iron pressure pipes for water gas and sewage - Specification Third Revision
33	IS 8794 : 1988 Reviewed In : 2022	Specification for cast iron detachable joints for use with asbestos cement pressure pipes First Revision
34	IS 9321 : 1979 Reviewed In : 2020	Specification for material for alloy cast iron valve seat inserts
35	IS 9523 : 2000 Reviewed In : 2020 ISO 2531:2009	Ductile iron fittings for pressure pipes for water gas and sewage - Specification First Revision