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 | Methods of sampling grey iron and | February, 2025 | - | Indigenous |
| | Reviewed In: 2025 | malleable iron castings | | | |
| 2 | IS 10292:1988 | Specification for dimensional | March, 2022 | - | Indigenous |
| | Reviewed In: 2022 | reooirements for rubber sealing | | | |
| | | rings for C.I.D joints in asbestos | | | |
| | | cement piping (First Revision) | | | |
| 3 | IS 10299:1982 | Specification for cast iron saddle | February, 2025 | - | Indigenous |
| | Reviewed In: 2025 | pieces for service connection from | | | |
| | | asbestos cement pressure pipes | | | |
| 4 | IS 11606:1986 | Methods for sampling of cast iron | December, 2024 | - | Indigenous |
| | Reviewed In: 2024 | pipes and fittings | | | - |
| 5 | IS 12820:2004 | Dimensional requirements of | July, 2020 | 1 | Indigenous |
| | Reviewed In: 2020 | 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) | | | |
| 6 | IS 12987:1991 | Cast iron detachable joints for use | December, 2024 | - | Indigenous |
| | Reviewed In: 2024 | with asbestos cement pressure | | | |
| | | pipes (Light Duty) - Specification | | | |
| 7 | IS 12988:1991 | Rubber sealing rings for cid joints | December, 2024 | - | Indigenous |
| | Reviewed In: 2024 | for light duty ac pipesdimensional | | | |
| | Decision taken to | requirements | | | |
| | Reaffirm and | · | | | |
| | Archive | | | | |
| 8 | IS 13382:2018 | Cast iron specials for mechanical | January, 2024 | - | Not Equivalent |
| | | and push-on flexible joints for | | | |
| | Reviewed In: 2024 | pressure pipes for water, gas and | | | |
| | ISO 2531 | sewage - Specification (Second | | | |
| | | Revision) | | | |
| 9 | IS 13502:2023 | PIG IRON- SPECIFICATION | | - | Indigenous |
| | | | | | |
| 10 | IS 14329:1995 | Malleable iron castings - | December, 2024 | - | Not Equivalent |
| | Reviewed In: 2024 | Specification | | | |
| | ISO 9147:1987 | | | | |
| 11 | IS 1536:2001 | Centrifugally cast (Spun) iron | March, 2021 | 5 | Indigenous |
| | Reviewed In: 2021 | pressure pipes for water, gas and | | | - |
| | | sewage - Specification (Fourth | | | |

| 13 | I | l | Revision) | | 1 | |
|--|-----|---------------------------------------|------------------------------------|-----------------|---|------------------|
| pressure pipes for water, gas and sewage \(\frac{1}{2} \) Specification for vertically east reviewed In 2025 reactifiting but not laken up for revision \(\frac{1}{2} \) Sistemation for vertically east and sewage (First Revision) taken up for revision \(\frac{1}{2} \) Sistemation for vertically east and sewage (First Revision) taken up for revision \(\frac{1}{2} \) Sistemation for vertically east and sewage (First Revision) taken up for revision \(\frac{1}{2} \) Sistemation for vertically east for water, gas and sewage (First Revision) taken to for water, gas and sewage (First Revision) \(\frac{1}{2} \) Sistemation for vertically east for water, gas and sewage (First Revision) \(\frac{1}{2} \) Sistemation for pipes, Pittings and Accessories id-* Specification (Third Revision) \(\frac{1}{2} \) Sistemation for pipes, Pittings and Accessories id-* Specification (Third Revision) \(\frac{1}{2} \) Sistemation for pipes, Pittings and Accessories id-* Specification (Third Revision) \(\frac{1}{2} \) Sistemation for pipes in the pipe fittings and Accessories id-* Specification (Third Revision) \(\frac{1}{2} \) Sistemation for the extremely spheroidal or nodular graphite - Specification for pipe fittings reviewed in 2020 \(\frac{1}{2} \) Malleable cast from pipe fittings reviewed in 2020 \(\frac{1}{2} \) Sistemation for pipe fittings reviewed in 2020 \(\frac{1}{2} \) Sistemation for the pipe fittings reviewed in 2020 \(\frac{1}{2} \) Sistemation for pipe fittings reviewed in 2020 \(\frac{1}{2} \) Sistemation for pipe from Reviewed in 2025 \(\frac{1}{2} \) Sistemation for pipe from Sistemation of pip from Reviewed in 2025 \(\frac{1}{2} \) Sistemation for decentance of the pipe from Reviewed in 2025 \(\frac{1}{2} \) Sistemation for first Revision) 21 \(\frac{1}{2} \) Sistemation for the pipe from Reaffirm and Archive is Social and slag laddes per 2 grey cast from ingot moulds, stooks and slag laddes per 3 grey cast from lingent moulds of mass more than one than one laden of the pipe from than one laden u | 12 | IS 1536:2023 | | | - | Indigenous |
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| Laken up for revision ISO 6594 IS 15183:1993 Reviewed In : 2022 ISO 6594 IS 1805:2002 ISO 1808:2003 ISO 1808:2003 ISO 1808:2003 ISO 1808:2003 ISO 1808:2003 ISO 1808:2003 ISO 2004 ISS 2005 ISO 200 | | Reviewed In: 2025 | iron pressure pipes for water, gas | | | |
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| ISO 6594 Specification (Third Revision) February, 2025 Indigenous | 14 | | | February, 2024 | 6 | Not Equivalent |
| 15 IS 15905:2024 Hubless Centrifugally Cast (Spun) From Pipes, Fittings and Accessories & Specification (First Revision) SAND CAST RON SPIGOT AND SOCKET PIPES, FITTINGS AND ACCESSORIES & SPECIFICATION SPIGOT AND SOCKET PIPES, FITTINGS AND ACCESSORIES & SPECIFICATION Reviewed In: 2025 If no clastings with spheroidal or not laten properties of the properti | | | | | | |
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| Specification (First Revision) | | | | | | |
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| 19 IS 1956 (Part 7):1976 Glossary of terms relating to iron and steel: Part 7 wrought iron (First Reviseed In : 2021 Revision) Reviseed In : 2021 Revision South Figure 1 South Figure 2 Revision Reviewed In : 2025 Reaffirmed but not taken up for revision Revision Specification for grey cast iron ingot moulds, stools and slag ladles: Part 1 bottom stools for large size ingot moulds, stools and slag ladles: Part 2 grey cast iron ingot moulds of mass more than eight tonnes (First Revision) Reviewed In : 2025 Reaffirm and Archive Specification for grey cast iron ingot moulds Revision Revisio | 18 | | 1.1 | July, 2020 |) | indigenous |
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| Reaffirmed but not taken up for revision tonne and up to eight tonnes (First Revision) | | · · · · · · · · · · · · · · · · · · · | _ | | | |
| taken up for revision tonne and up to eight tonnes (First Revision) | | | | | | |
| Revision) | | | | | | |
| | | taken up for revision | | | | |
| 26 IS 3005 (Part Specification for grey cast iron February, 2025 1 Indigenous | 2.5 | 10 200 7 (D | | T.1. 2027 | 1 | Y 1' |
| | 26 | 15 3005 (Part | Specification for grey cast iron | February, 2025 | | Indigenous |

| | 4):1984 | ingot moulds, stools and slag | | 1 | 1 |
|-----|---|--|-------------------|---|----------------|
| | · · · · · · · · · · · · · · · · · · · | laddles: Part 4 grey cast iron ingot | | | |
| | Reaffirmed but not | moulds of mass up to 1 tonne (First | | | |
| | taken up for revision | Revision) | | | |
| 27 | IS 3355:1974 | Specification for grey iron castings | February, 2025 | - | Indigenous |
| | Reviewed In: 2025 | for elevated temperatures for non - | • | | |
| | | Pressure containing parts (First | | | |
| | | Revision) | | | |
| 28 | IS 3516:1966 | Specification for cast iron pipe | February, 2025 | 1 | Indigenous |
| | Reviewed In: 2025 | flanges and flanged fittings for | | | |
| • | *************************************** | petroleum industry | | | |
| 29 | IS 3989:2024 | CENTRIFUGALLY CAST | | - | Indigenous |
| | | (SPUN) IRON SPIGOT AND | | | |
| | | SOCKET PIPES, FITTINGS AND ACCESSORIES � | | | |
| | | SPECIFICATION (Fourth | | | |
| | | Revision) | | | |
| 30 | IS 4771:1985 | Specification for abrasion - | February, 2025 | _ | Indigenous |
| 50 | Reviewed In : 2025 | Resistant iron castings (Second | 1 0014411, 2023 | | indigonous |
| | | Revision) | | | |
| 31 | IS 5519:1979 | Deviations for untoleranced | February, 2025 | - | Indigenous |
| | Reviewed In: 2025 | dimensions and mass of grey iron | . . | | |
| | | castings (First Revision) | | | |
| 32 | IS 5531:2014 | Cast iron specials for asbestos | February, 2025 | - | Indigenous |
| | Reviewed In: 2025 | cement pressure pipes for water | | | |
| | | and sewage - Specification (Third | | | |
| | | Revision) | | | |
| 33 | IS 5787:1986 | Specification for spheroidal or | March, 2021 | 1 | Indigenous |
| | Reviewed In: 2021 | nodular graphite iron castings for | | | |
| | | paper mill dryer rolls (First Revision) | | | |
| 34 | IS 5788:1986 | Specification for iron castings with | February, 2025 | 1 | Indigenous |
| 54 | Reviewed In : 2025 | spheroidal or nodular graphite for | 1 coluary, 2023 | | margenous |
| | iteviewed in : 2025 | pressure containing parts for use at | | | |
| | | elevated temperatures (First | | | |
| | | Revision) | | | |
| 35 | IS 5789:1993 | Austenitic spheroidal graphite iron | February, 2025 | - | Indigenous |
| | Reviewed In: 2025 | castings for pressure containing | | | |
| | | parts suitable for low - | | | |
| | | Temperature service - | | | |
| 26 | IC (440 40=4 | Specification (First Revision) | E 1 2027 | - | T 11 |
| 36 | IS 6418:1971 | Specification for cast iron and | February, 2025 | - | Indigenous |
| | Reviewed In: 2025 | malleable cast iron flanges for | | | |
| 37 | IS 6629:1972 | general engineering purposes Specification for cast iron rolls | February, 2025 | 1 | Indigenous |
| 31 | Reviewed In : 2025 | Specification for east from folis | 1 coruary, 2023 | 1 | murgenous |
| 38 | IS 7181:1986 | Specification for horizontally cast | December, 2024 | 5 | Indigenous |
| 20 | Reviewed In: 2024 | iron double flanged pipes for | _ 113111041, 2021 | | |
| | Reaffirmed but not | water, gas and sewage (First | | | |
| | taken up for revision | | | | |
| | _ | | | | |
| 39 | IS 7520:1974 | Specification for corrosion - | February, 2025 | - | Indigenous |
| | | Resistant high silicon iron castings | | | |
| 40 | IS 7925:1976 | Specification for low alloy types of | March, 2021 | - | Indigenous |
| / 1 | Reviewed In : 2021 | abrasion - Resistant iron castings | E-h 2027 | | Not Franks 1 |
| 41 | IS 8329:2000 Reviewed In : 2025 | Centrifugally cast (Spun) ductile | February, 2025 | 6 | Not Equivalent |
| | ISO 2531:2009 | iron pressure pipes for water, gas and sewage - Specification (Third | | | |
| | 100 2001.2009 | and sewage - specification (Tillia | | 1 | 1 |

| | | Revision) | | | |
|----|-------------------|--------------------------------------|----------------|---|----------------|
| 42 | IS 8349:1977 | Deviations for untoleranced | February, 2025 | - | Indigenous |
| | Reviewed In: 2025 | dlMensions of malleable iron | | | |
| | | castings | | | |
| 43 | IS 8350:1977 | Deviations for untoleranced | February, 2025 | 1 | Indigenous |
| | Reviewed In: 2025 | dimensions of spheroidal or | | | |
| | Decision taken to | nodular graphite iron castings | | | |
| | Reaffirm and | | | | |
| | Archive | | | | |
| 44 | IS 8794:1988 | Specification for cast iron | March, 2022 | 2 | Indigenous |
| | Reviewed In: 2022 | detachable joints for use with | | | |
| | | asbestos cement pressure pipes | | | |
| | | (First Revision) | | | |
| 45 | IS 9321:1979 | Specification for material for alloy | February, 2025 | - | Indigenous |
| | Reviewed In: 2025 | cast iron valve seat inserts | | | |
| 46 | IS 9523:2000 | Ductile iron fittings for pressure | February, 2025 | 6 | Not Equivalent |
| | Reviewed In: 2025 | pipes for water, gas and sewage - | | | |
| | ISO 2531:2009 | Specification (First Revision) | | | |
| 47 | IS 9630:1980 | Recommended practices for | March, 2021 | 2 | Indigenous |
| | Reviewed In: 2021 | production of spheroidal graphite | | | |
| | | iron | | | |

Standards under Development

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

| | Preliminary Draft Standards | | | | |
|---------|-----------------------------|--|--|--|--|
| SI. No. | Doc No. | Title | | | |
| 1 | MTD 6 (28039) Revision | Cast iron fittings for pressure pipes for water gas and sewage - Specification Fourth Revision | | | |
| | of: IS 1538:1993 | | | | |

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

| | | Draft Standards Completed WC Stage | | | | |
|------------------|-----------------------|------------------------------------|--|--|--|--|
| SI. No. | SI. No. Doc No. Title | | | | | |
| No Records Found | | | | | | |

| | 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 | | | |

| Finalized Draft Indian Standards under Print | | | | | |
|--|-----------------------|--|--|--|--|
| SI. No. | SI. No. Doc No. Title | | | | |
| | No Records Found | | | | |

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

| SI. 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 | Centrifugaly 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

| SI. No. | IS No. & Year | Title |
|---------|-------------------|--|
| 1 | IS 10299:1982 | Specification for cast iron saddle pieces for service connection from asbestos cement pressure |
| | Reviewed In: 2025 | pipes |
| 2 | IS 12987:1991 | Cast iron detachable joints for use with asbestos cement pressure pipes Light Duty - Specification |
| | | |

| 1 | Reviewed In: 2024 | |
|---------|---|--|
| 3 | IS 13382:2018 | Cast iron specials for mechanical and push-on flexible joints for pressure pipes for water gas and |
| | | sewage - Specification Second Revision |
| | Reviewed In: 2024 ISO | |
| | 2531 | |
| 4 | IS 13502:2023 | PIG IRON- SPECIFICATION |
| | IEC 63203-406-1:2021 | Mallach Linear and an Constitution |
| 5 | IS 14329:1995 Reviewed In : 2024 ISO | Malleable iron castings - Specification |
| | 9147:1987 | |
| 6 | IS 1536:2023 | Centrifugally cast spun iron pressure pipes for water gas and sewage Specification |
|] | | comments against the result of the result of the results and the results and the results are results and the results and the results are r |
| 7 | IS 1537:1976 | Specification for vertically cast iron pressure pipes for water gas and sewage First Revision |
| | Reviewed In: 2025 | |
| | Reaffirmed but not taken up | |
| | for revision ISO 6594 | |
| 8 | IS 1538:1993 | Cast iron fittings for pressure pipes for water gas and sewage - Specification Third Revision |
| | Reviewed In: 2024 ISO | |
| 9 | 6594 IS 15905:2024 | Hubless Centrifugally Cast Spun Iron Pipes Fittings and Accessories Spigot Series Specification |
| 9 | 15 13903:2024 | First Revision |
| 10 | IS 1729:2023 | SAND CAST IRON SPIGOT AND SOCKET PIPES FITTINGS AND ACCESSORIES |
| 10 | 15 1727.2023 | SPECIFICATION |
| 11 | IS 1865:1991 | Iron castings with spheroidal or nodular graphite - Specification Third Revision |
| | Reviewed In: 2025 ISO | |
| | 1083:2018 | |
| 12 | IS 1879:2010 | Malleable cast iron pipe fittings - Specification Third Revision |
| | Reviewed In: 2020 | |
| 13 | IS 210:2009 | Grey iron castings - Specification Fifth Revision |
| | Reviewed In: 2025 ISO | |
| 1.4 | 185:2005 | |
| 14 | IS 2749:1974 Reviewed In : 2025 | Specification for austenitic iron castings First Revision |
| | Decision taken to Reaffirm | |
| | and Archive ISO 2892:2007 | |
| 15 | IS 3005 (Part 1):1979 | Specification for grey cast iron ingot moulds stools and slag ladles Part 1 bottom stools for large |
| | Reviewed In: 2022 | size ingot moulds weighing 8 tonnes and higher First Revision |
| | Reaffirmed but not taken up | |
| | for revision | |
| 16 | IS 3005 (Part 2):1979 | Specification for grey cast iron ingot moulds stools and slag ladles Part 2 grey cast iron ingot |
| | Reviewed In: 2025 | moulds of mass more than eight tonnes First Revision |
| | Decision taken to Reaffirm | |
| 17 | and Archive | |
| 17 | IS 3005 (Part 3):1982 Reviewed In : 2025 | 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 |
| | Reaffirmed but not taken up | modius of mass more than one tollic and up to eight tollics first Revision |
| | for revision | |
| 18 | IS 3005 (Part 4):1984 | Specification for grey cast iron ingot moulds stools and slag laddles Part 4 grey cast iron ingot |
| | Reviewed In: 2025 | moulds of mass up to 1 tonne First Revision |
| | Reaffirmed but not taken up | 1 |
| <u></u> | for revision | |
| 19 | IS 3355:1974 | Specification for grey iron castings for elevated temperatures for non - Pressure containing parts |
| | Reviewed In: 2025 | First Revision |
| 20 | IS 3516:1966 | Specification for cast iron pipe flanges and flanged fittings for petroleum industry |
| | Reviewed In: 2025 | |
| 21 | IS 3989:2024 | CENTRIFUGALLY CAST SPUN IRON SPIGOT AND SOCKET PIPES FITTINGS AND |
| 22 | IS 4771:1985 | ACCESSORIES SPECIFICATION Fourth Revision Specification for abrasion Resistant iron castings Second Revision |
| | Reviewed In : 2025 | Specification for abrasion - Resistant iron castings Second Revision |
| | Reviewed III . 2023 | |

| 23 | IS 5531:2014 | Cast iron specials for asbestos cement pressure pipes for water and sewage - Specification Third |
|----|-----------------------------|---|
| | Reviewed In : 2025 | Revision |
| 24 | IS 5787:1986 | Specification for spheroidal or nodular graphite iron castings for paper mill dryer rolls First |
| | Reviewed In: 2021 | Revision |
| 25 | IS 5788:1986 | Specification for iron castings with spheroidal or nodular graphite for pressure containing parts for |
| | Reviewed In: 2025 | use at elevated temperatures First Revision |
| 26 | IS 5789:1993 | Austenitic spheroidal graphite iron castings for pressure containing parts suitable for low - |
| | Reviewed In: 2025 | Temperature service - Specification First Revision |
| 27 | IS 6418:1971 | Specification for cast iron and malleable cast iron flanges for general engineering purposes |
| | Reviewed In: 2025 | |
| 28 | IS 6629:1972 | Specification for cast iron rolls |
| | Reviewed In: 2025 | |
| 29 | IS 7181:1986 | Specification for horizontally cast iron double flanged pipes for water gas and sewage First |
| | Reviewed In: 2024 | Revision |
| | Reaffirmed but not taken up | |
| | for revision | |
| 30 | IS 7520:1974 | Specification for corrosion - Resistant high silicon iron castings |
| | Reviewed In: 2025 | |
| 31 | IS 7925:1976 | Specification for low alloy types of abrasion - Resistant iron castings |
| | Reviewed In: 2021 | |
| 32 | IS 8329:2000 | Centrifugally cast Spun ductile iron pressure pipes for water gas and sewage - Specification Third |
| | Reviewed In: 2025 ISO | Revision |
| | 2531:2009 | |
| 33 | IS 8794:1988 | Specification for cast iron detachable joints for use with asbestos cement pressure pipes First |
| | Reviewed In: 2022 | Revision |
| 34 | IS 9321:1979 | Specification for material for alloy cast iron valve seat inserts |
| | Reviewed In: 2025 | |
| 35 | IS 9523:2000 | Ductile iron fittings for pressure pipes for water gas and sewage - Specification First Revision |
| | Reviewed In: 2025 ISO | |
| | 2531:2009 | |