

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### MTD 9 : Ores and Feed Stock for Non-Ferrous (Excluding Aluminium and Copper) Industry, their Metals/ Alloys and Products Sectional Committee

**Scope:** Standardization in the field of Non-Ferrous Ores and other feed stock for Non-Ferrous Industry and Standardization in the field of Non-Ferrous Metals, their alloys and products. (Excluding Standardization in the field of Ores and Feed Stock for Aluminium and Copper Industry and their Metals, Alloys and Products)

**Liaison:** **ISO TC-18 (P): ISO TC-183 (O):** *Copper, lead, zinc and nickel ores and concentrates* **ISO TC-79 SC-11 (O):** *Titanium* **ISO TC-79 SC-5 (O):** *Magnesium and alloys of cast or wrought magnesium*

### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11516:2005 Reviewed In : 2021	Soft solder for electronic applications specification (First Revision)	March, 2021	-	Indigenous
2	IS 11861:1986 Reviewed In : 2025	Specification for titanium and titanium alloy strip, sheet and plate	March, 2025	-	Indigenous
3	IS 11900:2024	Tungsten Rods and Tungsten Wires for Lamps and Electron Devices â€™ Specification (First Revision)		-	Indigenous
4	IS 11901:1986 Reviewed In : 2025	Specification for titanium sponge	January, 2025	-	Indigenous
5	IS 11902:1986 Reviewed In : 2025	Specification for titanium and titanium alloy bars and billets	March, 2025	-	Indigenous
6	IS 12389:1988 Reviewed In : 2025	Specification for seamless and welded titanium and titanium alloy fittings	January, 2025	-	Indigenous
7	IS 12442:1988 Reviewed In : 2025	Specification for seamless and welded titanium and titanium alloy tubes for condensers and heat exchangers	March, 2025	-	Indigenous
8	IS 12445:1988 Reviewed In : 2021	Specification for molybdenum plate, sheet, strip and foil	March, 2021	-	Indigenous
9	IS 12447:2024 ISO 14919 : 2015	Zinc and Zinc Alloy Wire for Thermal Spraying (Metallizing) â€™ Specification (First Revision)		-	Not Equivalent
10	IS 12465:1988 Reviewed In : 2021	Specification for molybdenum wires for lighting and electronic application	March, 2021	-	Indigenous
11	IS 12644:1989 Reviewed In : 2025	Titanium and titanium alloy pipe, seamless and welded - Specification	March, 2025	-	Indigenous
12	IS 12828:1989 Reviewed In : 2025	Recommended practice for descaling and cleaning titanium and	March, 2025	-	Indigenous

		titanium alloy surfaces			
13	IS 12871:2022 ISO 12743:2021 ISO 12743:2021	COPPER LEAD ZINC AND NICKEL CONCENTRATES SAMPLING PROCEDURES FOR DETERMINATION OF METAL AND MOISTURE CONTENT (Second Revision)		-	Identical under dual numbering
14	IS 13350:1992 Reviewed In : 2021	Molybdenum rods - Specification	March, 2021	-	Indigenous
15	IS 13351:2024	Thoriated Tungsten Wires and Rods â€™ Specification (First Revision)		-	Indigenous
16	IS 13751:2023	Tungsten Ore for Hard Metal Industry ĩ½ Specification (First revision)		-	Indigenous
17	IS 13923:2023	Lead Seal - Specification (First revision)		-	Indigenous
18	IS 14651:1999 Reviewed In : 2021	Multi filamentary niobium - Titanium (NbTi) superconductor wires - Specification	March, 2021	-	Indigenous
19	IS 14688:1999 Reviewed In : 2021	Lead - Antimony alloy bricks for radiation shielding - Specification	March, 2021	-	Indigenous
20	IS 1654:1992 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead - Antimony alloys - Specification (Third Revision)	June, 2023	1	Indigenous
21	IS 1655:2023	Metallic Materials ĩ½ Zinc Alloys ĩ½ Manufacture of Pressure Die Castings ĩ½ Code of Practice ( Third Revision )		-	Indigenous
22	IS 1817:1961 Reviewed In : 2021	Methods of sampling non - Ferrous metals for chemical analysis	March, 2021	-	Indigenous
23	IS 18516:2023 ISO 20081 :2005 ISO 20081 :2005	Zinc and zinc alloys ĩ½ Method of sampling ĩ½ Specifications		-	Identical under dual numbering
24	IS 1921:2025 ISO 12224-1 : 2024	SOLDER WIRE - SOLID AND FLUX CORED - SPECIFICATION (THIRD REVISION)		-	Not Equivalent
25	IS 1921:2005 Reviewed In : 2021 ISO 12224-1 : 2024	Flux cored solder wire - Specification (Second Revision)	March, 2021	-	Not Equivalent
26	IS 193:2024 ISO 9453:2020 ISO 9453:2020	Soft solder alloys - Chemical compositions and forms - Specification (Sixth Revision)		-	Identical under dual numbering
27	IS 209:2024 ISO 752 : 2004	Refined Zinc - Specification (Fifth Revision)		-	Not Equivalent
28	IS 211:2024	Antimony Ingot â€™ Specification (Fifth Revision)		-	Indigenous
29	IS 2258:2023	Rolled Zinc Plate, Sheet And Strip ? Specification(Third Revision)		-	Indigenous
30	IS 25:1979 Reviewed In : 2021 Decision taken to Reaffirm and Archive	Specification for antifriction bearing alloys (Third Revision)	March, 2021	-	Indigenous
31	IS 26:2024	Tin ingot - Specification (fifth revision)		-	Indigenous

32	IS 27:2023	Primary Lead - Specification (Fifth Revision).		-	Indigenous
33	IS 2782:2023 ISO 6283: 2017	Refined Nickel- Specification (First Revision)		-	Not Equivalent
34	IS 3717:2024	Refined Secondary Lead $\frac{1}{2}$ Specification (Second Revision)		-	Indigenous
35	IS 404 (Part 1):1993 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead pipes - Specification: Part 1 for other than chemical purposes (Third Revision)	June, 2023	-	Indigenous
36	IS 404 (Part 2):1993 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead pipes - Specification: Part 2 for chemical purposes (Third Revision)	June, 2023	-	Indigenous
37	IS 405 (Part 1):1992 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead sheets and strips - Specification: Part 1 for chemical purposes (Third Revision)	June, 2023	-	Indigenous
38	IS 405 (Part 2):1992 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead sheets and strips - Specification: Part 2 for other than chemical purposes (Third Revision)	June, 2023	2	Indigenous
39	IS 5479:2024	Solders for Jointing Aluminium and Aluminium Alloys “ Specification (Second Revision)		-	Indigenous
40	IS 6344:2006 Reviewed In : 2022	Cadmium metal - Specification (Second Revision)	September, 2022	-	Indigenous
41	IS 6694:1999 Reviewed In : 2025	Magnesium ingots - Specification (Second Revision)	January, 2025	-	Indigenous
42	IS 713:1981 Reviewed In : 2023 ISO 301	Specification for zinc base alloy ingots for die casting (Second Revision)	June, 2023	1	Not Equivalent
43	IS 742:1981 Reviewed In : 2023 ISO 15201	Specification for zinc base alloy die castings (Second Revision)	June, 2023	1	Not Equivalent
44	IS 8439:1977 Reviewed In : 2024 Decision taken to Reaffirm and Archive ISO 12744	Methods for sampling of lead and lead alloys	February, 2024	-	Not Equivalent
45	IS 8475:1977 Reviewed In : 2021 Decision taken to Reaffirm and Archive	Specification for lead - Base antifriction bearing alloy for heavy duty applications	March, 2021	-	Indigenous

### Standards under Development

Projects Approved		
Sl. No.	Doc No.	Title
1	MTD 9 (27448)	Continuous Galvanizing Grade CGG Zinc Alloys for Hot-Dip Galvanizing of Sheet Steel-Specification
2	MTD 9 (27519) Revision	Zinc and zinc alloys Castings Specifications

**Preliminary Draft Standards**

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

**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	MTD 9 (27075)	Zinc-Aluminium Alloy Ingots intended for Foundry and Die Castings Specification

**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
<i>No Records Found</i>		

**Total Published Standards:43 Total Standards Under development:3**

**Aspect Wise Report**

Product : 38  
 Code of Practices : 6  
 Methods of Test : 0  
 Terminology : 0  
 Dimensions : 0  
 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 10816:1984 Reviewed In : 2019	Methods of sampling zinc and lead concentrates
2	IS 13229:1991 Reviewed In : 2023	Zinc for galvanizing - Specification
3	IS 1339:1992 Reviewed In : 2003	Lead and Lead Alloys for Sheathing of Electric Cables
4	IS 1357:1984 Reviewed In : 2001	Printing Type Metal Ingots
5	IS 13982:1994 Reviewed In : 2006	Zinc Alloy for Hot Dip Coatings- Zinc-5 Percent Aluminium- Mischmetal Alloy
6	IS 4280:1992 Reviewed In : 2023	Refined secondary tin - Ingot specification Second Revision

7	IS 4699:1984 Reviewed In : 2023	Specification for refined secondary zinc First Revision
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<b>Annexure-II :List of Indian Product Standards</b>
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Sl. No.	IS No. & Year	Title
1	IS 11516:2005 Reviewed In : 2021	Soft solder for electronic applications specification First Revision
2	IS 11861:1986 Reviewed In : 2025	Specification for titanium and titanium alloy strip sheet and plate
3	IS 11900:2024	Tungsten Rods and Tungsten Wires for Lamps and Electron Devices Specification First Revision
4	IS 11901:1986 Reviewed In : 2025	Specification for titanium sponge
5	IS 11902:1986 Reviewed In : 2025	Specification for titanium and titanium alloy bars and billets
6	IS 12389:1988 Reviewed In : 2025	Specification for seamless and welded titanium and titanium alloy fittings
7	IS 12442:1988 Reviewed In : 2025	Specification for seamless and welded titanium and titanium alloy tubes for condensers and heat exchangers
8	IS 12445:1988 Reviewed In : 2021	Specification for molybdenum plate sheet strip and foil
9	IS 12447:2024	Zinc and Zinc Alloy Wire for Thermal Spraying Metallizing Specification First Revision
10	IS 12465:1988 Reviewed In : 2021	Specification for molybdenum wires for lighting and electronic application
11	IS 12644:1989 Reviewed In : 2025	Titanium and titanium alloy pipe seamless and welded - Specification
12	IS 13350:1992 Reviewed In : 2021	Molybdenum rods - Specification
13	IS 13351:2024	Thoriated Tungsten Wires and Rods Specification First Revision
14	IS 13751:2023	Tungsten Ore for Hard Metal Industry Specification First revision
15	IS 13923:2023	Lead Seal - Specification First revision
16	IS 14651:1999 Reviewed In : 2021	Multi filamentary niobium - Titanium NbTi superconductor wires - Specification
17	IS 14688:1999 Reviewed In : 2021	Lead - Antimony alloy bricks for radiation shielding - Specification
18	IS 1654:1992 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead - Antimony alloys - Specification Third Revision
19	IS 1921:2025	SOLDER WIRE - SOLID AND FLUX CORED - SPECIFICATION THIRD REVISION
20	IS 193:2024 ISO 9453:2020	Soft solder alloys - Chemical compositions and forms - Specification Sixth Revision
21	IS 209:2024	Refined Zinc - Specification Fifth Revision
22	IS 211:2024	Antimony Ingot Specification Fifth Revision
23	IS 2258:2023	Rolled Zinc Plate Sheet And Strip Specification Third Revision
24	IS 25:1979 Reviewed In : 2021 Decision taken to Reaffirm and Archive	Specification for antifriction bearing alloys Third Revision

25	IS 26:2024	Tin ingot - Specification fifth revision
26	IS 27:2023	Primary Lead - Specification Fifth Revision
27	IS 2782:2023	Refined Nickel- Specification First Revision
28	IS 3717:2024	Refined Secondary Lead Specification Second Revision
29	IS 404 (Part 1):1993 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead pipes - Specification Part 1 for other than chemical purposes Third Revision
30	IS 404 (Part 2):1993 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead pipes - Specification Part 2 for chemical purposes Third Revision
31	IS 405 (Part 1):1992 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead sheets and strips - Specification Part 1 for chemical purposes Third Revision
32	IS 405 (Part 2):1992 Reviewed In : 2023 Decision taken to Reaffirm and Archive	Lead sheets and strips - Specification Part 2 for other than chemical purposes Third Revision
33	IS 5479:2024	Solders for Jointing Aluminium and Aluminium Alloys Specification Second Revision
34	IS 6344:2006 Reviewed In : 2022	Cadmium metal - Specification Second Revision
35	IS 6694:1999 Reviewed In : 2025	Magnesium ingots - Specification Second Revision
36	IS 713:1981 Reviewed In : 2023 ISO 301	Specification for zinc base alloy ingots for die casting Second Revision
37	IS 742:1981 Reviewed In : 2023 ISO 15201	Specification for zinc base alloy die castings Second Revision
38	IS 8475:1977 Reviewed In : 2021 Decision taken to Reaffirm and Archive	Specification for lead - Base antifriction bearing alloy for heavy duty applications