

BUREAU OF INDIAN STANDARDS

Program of Work

MTD 3 : Mechanical Testing of Metals Sectional Committee

Scope: Standardization in the field of mechanical testing of metals

Liaison: **ISO TC-164 (P): Mechanical testing of metals ISO TC-164 SC-1 (P): Uniaxial testing ISO TC-164 SC-2 (P): Ductility testing ISO TC-164 SC-3 (P): Hardness testing ISO TC-164 SC-4 (P): Fatigue, fracture and toughness testing ISO TC-164 SC-1 (P): Continuous force calibration ISO TC-164 (P): Mechanical testing of metals ISO TC-164 SC-1 (P): Uniaxial testing ISO TC-164 SC-2 (P): Ductility testing ISO TC-164 SC-3 (P): Hardness testing ISO TC-164 SC-4 (P): Fatigue, fracture and toughness testing ISO TC-164 SC-1 (P): Continuous force calibration**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10166:1982 Reviewed In : 2022 Reaffirmed but not taken up for revision	Method for calibration of standardized test block for verification of scleroscope hardness testing equipments	March, 2022	-	Indigenous
2	IS 10167:1982 Reviewed In : 2022	Method for upsetting test on metallic materials	March, 2022	-	Indigenous
3	IS 10167:2025	Method for upsetting test on metallic materials (First Revision)		-	Indigenous
4	IS 10175:2018 ISO 20482:2013 Reviewed In : 2023 ISO 20482 : 2013	Metallic materials - Sheet and strip - Erichsen cupping test (Third Revision)	August, 2023	-	Identical under dual numbering
5	IS 10180:1982 Reviewed In : 2022	Method for plane strain fracture toughness testing of metals	March, 2022	-	Indigenous
6	IS 10623:2023	Drop Weight Tear Test on Ferritic Steels and Line Pipe ? Method of Test		-	Indigenous
7	IS 10636 (Part 1):1983 Reviewed In : 2022 Reaffirmed but not taken up for revision	Methods for measurement of abrasive wear properties of metallic material: Part 1 test method for gouging abrasion resistance (Jaw Crusher Test)	March, 2022	-	Indigenous
8	IS 10636 (Part 2):1983 Reviewed In : 2022 Reaffirmed but not taken up for revision	Method for measurement of abrasive wear properties of metallic material: Part 2 test method for high stress abrasion	March, 2022	-	Indigenous
9	IS 10636 (Part 3):1983	Methods for measurement of abrasive wear properties of	March, 2022	-	Indigenous

	Reviewed In : 2022 Reaffirmed but not taken up for revision	metallic material: Part 3 test methods for low stress abrasion			
10	IS 11083:1984 Reviewed In : 2022 Reaffirmed but not taken up for revision	Method for evaluation of friction and wear properties of materials against steel surface	March, 2022	-	Indigenous
11	IS 11240:1985 Reviewed In : 2022	Method for falling weight test on metallic materials	March, 2022	-	Indigenous
12	IS 11999:2022 ISO 10113:2020 ISO 10113:2020	METALLIC MATERIALS SHEET AND STRIP DETERMINATION OF PLASTIC STRAIN RATIO (Second Revision)		-	Identical under dual numbering
13	IS 12260:2018 ISO 8495 : 2013 Reviewed In : 2023 ISO 8495 : 2013	Metallic Materials - Tube - Ring - Expanding test (First Revision)	August, 2023	-	Identical under dual numbering
14	IS 12261:1987 Reviewed In : 2025 ISO 9649	Method for reverse torsion test for metallic wire	March, 2025	-	Not Equivalent
15	IS 12278:2018 ISO 8496:2013 Reviewed In : 2023 ISO 8496 : 2013	Metallic Materials - Tube - Ring tensile test (Second Revision)	August, 2023	-	Identical under dual numbering
16	IS 12872:2021 ISO 9513 : 1999 ISO 9513 : 2012	Metallic Materials - Calibration of Extensometer Systems Used in Uniaxial Testing (Second Revision)		-	Identical under dual numbering
17	IS 13237:1991 Reviewed In : 2025	Metallic foil - Tension testing	March, 2025	-	Indigenous
18	IS 13838:2023	MECHANICAL TESTING OF METALS- DETERMINATION OF POISSONS RATIO		-	Indigenous
19	IS 1403 (Part 1):1993 ISO 7799:1985 Reviewed In : 2025 ISO 7799:1985	Metallic materials — Sheet and strip 3 mm thick or less — Reverse bend test	February, 2025	1	Identical under dual numbering
20	IS 1500 (Part 1):2019 ISO 6506-3 : 2014 Reviewed In : 2024 ISO 6506-1 : 2014	Metallic materials - Brinell hardness test: Part 1 test method (Fifth Revision)	January, 2024	-	Identical under dual numbering
21	IS 1500 (Part 2):2021 ISO 6506-2 : 2014 ISO 6506-2 : 2014	Metallic materials -- Brinell hardness test -- Part 2: Verification and calibration of testing machines		-	Identical under dual numbering
22	IS 1500 (Part 3):2019 ISO 6506-3 : 2014 Reviewed In : 2024 ISO 6506-3 : 2014	Metallic materials - Brinell hardness test: Part 3 calibration of reference blocks (Fifth Revision)	January, 2024	-	Identical under dual numbering
23	IS 1500 (Part 4):2019 6506-4 : 2014 Reviewed In : 2024	Metallic materials - Brinell hardness test: Part 4 table of hardness values (Fifth Revision)	January, 2024	-	Identical under dual numbering

	ISO 6506-4 : 2014				
24	IS 1501 (Part 1):2025 ISO 6507-1 : 2023 ISO 6507-1 : 2023	Metallic materials Vickers hardness test Part 1: Test method (Sixth Revision)		-	Identical under dual numbering
25	IS 1501 (Part 2):2020 ISO 6507-2 : 2018 Reviewed In : 2024 ISO 6507-2 : 2018	Metallic Materials — Vickers Hardness Test Part 2 Verification and Calibration of Testing Machines (Fifth Revision)	December, 2024	-	Identical under dual numbering
26	IS 1501 (Part 3):2020 ISO 6507-3 : 2018 Reviewed In : 2024 ISO 6507-3 : 2018	Metallic Materials — Vickers Hardness Test Part 3 Calibration of Reference Blocks (Fifth Revision)	December, 2024	-	Identical under dual numbering
27	IS 1501 (Part 4):2020 ISO 6507-4 : 2018 Reviewed In : 2024 ISO 6507-4 : 2018	Metallic Materials — Vickers Hardness Test Part 4 Tables of Hardness Values (Fifth Revision)	December, 2024	-	Identical under dual numbering
28	IS 15420:2003 Reviewed In : 2021	Metallic materials - Charpy pendulum impact test - Preparation and characterization of charpy V reference test pieces for verification of test machines	March, 2021	-	Indigenous
29	IS 15756:2022 ISO 10275:2020 ISO 10275:2020	Metallic materials - Sheet and strip - Determination of tensile strain hardening exponent		-	Identical under dual numbering
30	IS 1586 (Part 1):2025 ISO 6508-1 : 2023 ISO 6508-1 : 2023	Metallic materials Rockwell hardness testPart 1: Test method (Sixth Revision)		-	Identical under dual numbering
31	IS 1586 (Part 2):2025 ISO 6508-2 : 2023 ISO 6508-2 : 2023	Metallic materials Rockwell hardness testPart 2: Verification and calibration of testing machines and indenters (Sixth Revision)		-	Identical under dual numbering
32	IS 1586 (Part 3):2025 ISO 6508-3 : 2023 ISO 6508-3 : 2023	Metallic materials Rockwell hardness testPart 3: Calibration of reference blocks (Sixth Revision)		-	Identical under dual numbering
33	IS 1598:2024	Izod Impact Test of Metals - Method of Test (Second Revision)		-	Indigenous
34	IS 1599:2023 ISO 7438 : 2020 ISO 7438 : 2020	Metallic materials Bend test		-	Identical under dual numbering
35	IS 1608 (Part 1):2022 ISO 6892-1 : 2019 ISO 6892-1 : 2019	Metallic materials - Tensile testing - Part 1 : Method of test at room temperature (Fifth Revision)		-	Identical under dual numbering
36	IS 1608 (Part 2):2020 ISO 6892-2 : 2018 Reviewed In : 2024 ISO 6892-2:2018	Metallic Materials - Tensile Testing Part 2 Method of Test at Elevated Temperature (Fourth Revision)	December, 2024	-	Identical under dual numbering
37	IS 1608 (Part 3):2018 ISO 6892-3 : 2015 Reviewed In : 2023 6892-3:2015	Metallic materials - Tensile testing: Part 3 method of test at low temperature	August, 2023	-	Identical under dual numbering

38	IS 16842:2022 ISO 12108 : 2018 ISO 12108 : 2018	Metallic materials - Fatigue testing - Fatigue crack growth method		-	Identical under dual numbering
39	IS 16843:2018 ISO 12111 : 2011 Reviewed In : 2023 ISO 12111:2011	Metallic materials - Fatigue testing - Strain - Controlled thermomechanical fatigue testing method	November, 2023	-	Identical under dual numbering
40	IS 17143:2023 ISO 1352 : 2021 ISO 1352 : 2021	Metallic materials Torque-controlled fatigue testing		-	Identical under dual numbering
41	IS 17144 (Part 1):2019 ISO 14577-1 : 2015 Reviewed In : 2024 ISO 14577-1 : 2015	Metallic materials - Instrumented indentation test for hardness and materials parameters: Part 1 test method	January, 2024	-	Identical under dual numbering
42	IS 17144 (Part 2):2019 ISO 14577-2 : 2015 Reviewed In : 2024 ISO 14577-2 : 2015	Metallic materials - Instrumented indentation test for hardness and materials parameters: Part 2 verification and calibration of testing machines	January, 2024	-	Identical under dual numbering
43	IS 17144 (Part 3):2019 ISO 14577-3 : 2015 Reviewed In : 2024 ISO 14577-3 : 2015	Metallic materials - Instrumented indentation test for hardness and materials parameters: Part 3 calibration of reference blocks	January, 2024	-	Identical under dual numbering
44	IS 17144 (Part 4):2019 ISO 14577-4 : 2016 Reviewed In : 2024 ISO 14577-4 : 2016	Metallic materials - Instrumented indentation test for hardness and materials parameters: Part 4 test method for metallic and Non - Metallic coatings	January, 2024	-	Identical under dual numbering
45	IS 17145 (Part 1):2019 ISO 12110-1 : 2013 Reviewed In : 2024 ISO 12110-1 : 2013	Metallic materials - Fatigue testing - Variable amplitude fatigue testing: Part 1 general principles, test method and reporting requirements	January, 2024	-	Identical under dual numbering
46	IS 17145 (Part 2):2019 ISO 12110-2 ; 2013 Reviewed In : 2024 ISO 12110-2 : 2013	Metallic materials - Fatigue testing - Variable amplitude fatigue testing: Part 2 cycle counting and related data reduction methods	January, 2024	-	Identical under dual numbering
47	IS 17146 (Part 1):2023 ISO 12004-1 : 2020 ISO 12004-1 : 2020	Metallic materials Determination of forming-limit curves for sheet and strip Part 1: Measurement and application of forming-limit diagrams in the press shop		-	Identical under dual numbering
48	IS 17146 (Part 2):2022 ISO 12004-2:2021 ISO 12004-2:2021	Metallic materials Determination of forming-limit curves for sheet and strip Part 2: Determination of forming-limit curves in the laboratory		-	Identical under dual numbering
49	IS 17147:2019 ISO 12107 : 2012 Reviewed In : 2024 ISO 12107 : 2012	Metallic materials - Fatigue testing - Statistical planning and analysis of data	January, 2024	-	Identical under dual numbering
50	IS 17149 (Part 1):2019 ISO 16859-1 : 2015 Reviewed In : 2024 ISO 16859-1 : 2015	Metallic materials - Leeb hardness test: Part 1 test method	January, 2024	-	Identical under dual numbering

51	IS 17149 (Part 2):2019 ISO 16859-2 : 2015 Reviewed In : 2024 ISO 16859-2 : 2015	Metallic materials - Leeb hardness test: Part 2 verification and calibration of the testing devices	January, 2024	-	Identical under dual numbering
52	IS 17149 (Part 3):2019 ISO 16859-3 : 2015 Reviewed In : 2024 ISO 16859-3 : 2015	Metallic materials - Leeb hardness test: Part 3 calibration of reference test blocks	January, 2024	-	Identical under dual numbering
53	IS 17151:2023 ISO 12135 : 2021 ISO 12135 : 2021	Metallic materials Unified method of test for the determination of quasistatic fracture toughness		-	Identical under dual numbering
54	IS 1716:2023 ISO 7801:1984 ISO 7801:1984	Metallic materials Wire Reverse bend test		-	Identical under dual numbering
55	IS 1717:2018 ISO 7800 : 2012 Reviewed In : 2023 ISO 7800 : 2012	Metallic materials - Wire - Simple torsion test (Fourth Revision)	August, 2023	-	Identical under dual numbering
56	IS 17413 (Part 1):2020 ISO 26203-1 : 2018 Reviewed In : 2024 ISO 26203-1:2018	Metallic Materials - Tensile Testing at High Strain Rates Part 1 Elastic-Bar-Type Systems	December, 2024	-	Identical under dual numbering
57	IS 17413 (Part 2):2020 ISO 26203-2 : 2011 Reviewed In : 2024 26203-2:2011	Metallic Materials - Tensile Testing at High Strain Rates Part 2 Servo-Hydraulic and Other Systems	December, 2024	-	Identical under dual numbering
58	IS 17414:2020 ISO 16630 : 2017 Reviewed In : 2024 ISO 16630:2017	Metallic Materials — Sheet and Strip — Hole Expanding Test	December, 2024	-	Identical under dual numbering
59	IS 17415:2023 ISO 18338 : 2021 ISO 18338 : 2021	Metallic materials Torsion test at room temperature		-	Identical under dual numbering
60	IS 17416:2024 ISO 14556 : 2023 ISO 14556 : 2023	Metallic Materials “ Charpy V-Notch Pendulum Impact Test “ Instrumented Test Method (First Revision)		-	Identical under dual numbering
61	IS 17417 (Part 1):2020 ISO 4965-1 : 2012 Reviewed In : 2024 ISO 4965-1:2012	Metallic Materials - Dynamic Force Calibration for Uniaxial Fatigue Testing Part 1 Testing Systems	December, 2024	-	Identical under dual numbering
62	IS 17417 (Part 2):2020 ISO 4965-2 : 2012 Reviewed In : 2024 ISO 4965-2:2012	Metallic Materials - Dynamic Force Calibration for Uniaxial Fatigue Testing Part 2 Dynamic Calibration Device (DCD) Instrumentation	December, 2024	-	Identical under dual numbering
63	IS 17418:2020 ISO 16842 : 2014 Reviewed In : 2025 ISO 16842 : 2014	Metallic Materials - Sheet and Strip - Biaxial Tensile Testing Method Using a Cruciform Test Piece	March, 2025	-	Identical under dual numbering
64	IS 17419:2025 ISO 17340 : 2020	Metallic Materials - Ductility Testing - High Speed Compression Test for Porous and Cellular Metals (Third Revision)		-	Modified/Technically Equivalent

65	IS 1755:2018 ISO 7802 : 2013 Reviewed In : 2023 ISO 7802:2013	Metallic Materials - Wire - Wrapping test (Second Revision)	August, 2023	-	Identical under dual numbering
66	IS 1757 (Part 1):2020 ISO 148-1 : 2016 Reviewed In : 2025 ISO 148-1:2016	Metallic Materials — Charpy Pendulum Impact Test Part 1 Test Method (Fourth Revision)	February, 2025	-	Identical under dual numbering
67	IS 1757 (Part 2):2020 ISO 148-2 : 2016 Reviewed In : 2025 ISO 148-2 : 2016	Metallic Materials - Charpy Pendulum Impact Test Part 2 Verification of Testing Machines (Fourth Revision)	February, 2025	-	Identical under dual numbering
68	IS 1757 (Part 3):2020 ISO 148-3 : 2016 Reviewed In : 2025 ISO 148-3:2016	Metallic Materials - Charpy Pendulum Impact Test Part 3 Preparation and Characterization of Charpy V-notch Test Pieces for Indirect Verification of Pendulum Impact Machines (Fourth Revision)	February, 2025	-	Identical under dual numbering
69	IS 17679:2021 ISO 15653:2018 ISO 15653:2018	Metallic materials - Method of test for the determination of quasistatic fracture toughness of welds		-	Identical under dual numbering
70	IS 17795:2025 ISO 204 : 2023	Metallic materials Uniaxial creep testing in tension Method of test (First Revision)		-	Modified/Technically Equivalent
71	IS 17915:2022 ISO 20032 : 2013 ISO 20032 : 2013	Method for evaluation of tensile properties of metallic superplastic materials		-	Identical under dual numbering
72	IS 17937:2022 ISO 13314 : 2011 ISO 13314 : 2011	Mechanical testing of metals Ductility testing Compression test for porous and cellular metals		-	Identical under dual numbering
73	IS 1828 (Part 1):2022 ISO 7500-1 : 2018 ISO 7500-1 : 2018	METALLIC MATERIALS - CALIBRATION AND VERIFICATION OF STATIC UNIAXIAL TESTING MACHINES - PART 1: TENSION/COMPRESSION TESTING MACHINES - CALIBRATION AND VERIFICATION OF THE FORCE- MEASURING SYSTEM		-	Identical under dual numbering
74	IS 1828 (Part 2):2015 IS 1828(Part 2):2014 / ISO 7500-2:2006 Reviewed In : 2024 ISO 7500-2:2006	Metallic materials - Verification of static uniaxial testing machines: Part 2 tension creep testing machines - Verification of the applied force (First Revision)	December, 2024	-	Identical under dual numbering
75	IS 18733:2024 ISO 11531 : 2022 ISO 11531 : 2022	Metallic materials $i_c/2$ Sheet and strip $i_c/2$ Earing test		-	Identical under dual numbering
76	IS 18795:2024 ISO 12106 : 2017	Metallic Materials $i_c/2$ Fatigue Testing $i_c/2$ Axial-Strain- Controlled Method		-	Modified/Technically Equivalent
77	IS 19024:2022 ISO 15363 : 2017 ISO 15363 : 2017	Metallic materials Tube ring hydraulic pressure test		-	Identical under dual numbering
78	IS 2328:2018	Metallic materials - Tube -	August, 2023	-	Identical under dual

	ISO 8492 : 2013 Reviewed In : 2023 ISO 8492:2013	Flattening test (Third Revision)			numbering
79	IS 2329:2005 IS 2329:2005 / ISO 8491:1998 Reviewed In : 2022 ISO 8491:1998	Metallic materials - Tube (In Full Section) - Bend test (Second Revision)	January, 2022	-	Identical under dual numbering
80	IS 2330:2018 8494:2013 Reviewed In : 2023 ISO 8494 : 2013	METALLIC MATERIALS - TUBE - FLANGING TEST	August, 2023	-	Identical under dual numbering
81	IS 2335:2005 IS 2335:2005 / ISO 8493:1998 Reviewed In : 2022 ISO 8493:1998	Metallic Materials - Tube - Drift expanding test (Second Revision)	February, 2022	-	Identical under dual numbering
82	IS 2854:1990 Reviewed In : 2022	Determination of young's modulus,tangent modulus and chord modulus - Test method	March, 2022	-	Indigenous
83	IS 2855:1991 Reviewed In : 2025	Thermostat metals - Determinantion of flexivity (First Revision)	February, 2025	-	Indigenous
84	IS 3394:2024	Electrical Resistance Alloys for Heating Elements $i_c^{1/2}$ Accelerated Life Test ? Method of Test		-	Indigenous
85	IS 3407 (Part 1):1983 Reviewed In : 2022	Method for creep testing of steel at elevated temperatures: Part 1 tensile creep testing (First Revision)	March, 2022	-	Indigenous
86	IS 3407 (Part 2):1983 Reviewed In : 2022	Method for creep testing of steel at elevated temperatures: Part 2 tensile creep stress rupture testing (First Revision)	March, 2022	-	Indigenous
87	IS 3410:1993 Reviewed In : 2025	Metallic materials - Determination of linear thermal expansion (First Revision)	January, 2025	-	Indigenous
88	IS 3711:2020 ISO 377 : 2017 Reviewed In : 2025 ISO 377:2017	Steel and Steel Products — Location and Preparation of Samples and Test Pieces for Mechanical Testing (Third Revision)	March, 2025	-	Identical under dual numbering
89	IS 3803 (Part 1):2023 ISO 2566-1 : 2021 ISO 2566-1 : 2021	Steel - Conversion of elongation values: Part 1 carbon and low alloy steels		-	Identical under dual numbering
90	IS 3803 (Part 2):2022 ISO 2566-2:2021 ISO 2566-2:2021	Steel Conversion of elongation values Part 2: Austenitic steels		-	Identical under dual numbering
91	IS 4169:2014 ISO 18265:2003 Reviewed In : 2024 ISO 376 : 2011	Metallic materials - Calibration of force proving instruments used for the verification of uniaxial testing machines (Second Revision)	December, 2024	-	Identical under dual numbering
92	IS 4258:2018 ISO 18265:2013 Reviewed In : 2023 ISO 18265 : 2013	Metallic materials - Conversion of hardness values (Third Revision)	August, 2023	-	Identical under dual numbering
93	IS 5069:2018	Metallic Materials - Mechanical	August, 2023	-	Identical under dual

	ISO 23718 : 2007 Reviewed In : 2023 ISO 23718	Testing - Vocabulary (Second Revision)			numbering
94	IS 5070:1985 Reviewed In : 2022	Method for beam unnotched impact test for grey cast iron (First Revision)	March, 2022	-	Indigenous
95	IS 5074:2023 ISO 1099 : 2017 ISO 1099 : 2017	Metallic materials -- Fatigue testing -- Axial force-controlled method		-	Identical under dual numbering
96	IS 5075:2023 ISO 1143 : 2021 ISO 1143 : 2021	METALLIC MATERIALS - ROTATING BAR BENDING FATIGUE TESTING		-	Identical under dual numbering
97	IS 5242:1979 Reviewed In : 2022	Method of test for determining shear strength of metals (First Revision)	March, 2022	-	Indigenous
98	IS 6885 (Part 1):2025 ISO 4545-1:2017	Metallic materials Knoop hardness test Part 1: Test method (Third Revision)		-	Identical under dual numbering
99	IS 6885 (Part 1):2020 ISO 4545-1 : 2017 Reviewed In : 2025 ISO 4545-1:2017	Metallic Materials — Knoop Hardness Test Part 1 Test Method (Second Revision)	February, 2025	-	Identical under dual numbering
100	IS 6885 (Part 2):2020 ISO 4545-2 : 2017 Reviewed In : 2024 ISO 4545-2:2017	Metallic Materials — Knoop Hardness Test Part 2 Verification and Calibration of Testing Machines (Second Revision)	December, 2024	-	Identical under dual numbering
101	IS 6885 (Part 3):2020 ISO 4545-3 : 2017 Reviewed In : 2024 ISO 4545-3:2017	Metallic Materials — Knoop Hardness Test Part 3 Calibration of Reference Blocks (Second Revision)	December, 2024	-	Identical under dual numbering
102	IS 6885 (Part 4):2020 ISO 4545-4 : 2017 Reviewed In : 2024 ISO 4545-4:2017	Metallic Materials — Knoop Hardness Test Part 4 Tables of Hardness Values (Second Revision)	December, 2024	-	Identical under dual numbering
103	IS 6886:2025	Dynamic Force Calibration of Axial Load Fatigue Testing Machines by Means of a Strain Gauge Technique - Method of Test (First Revision)		-	Indigenous
104	IS 7096:1981 Reviewed In : 2022 Reaffirmed but not taken up for revision	Method for scleroscope hardness testing of metallic materials (first Revision)	March, 2022	-	Indigenous
105	IS 7172:1984 Reviewed In : 2022 Reaffirmed but not taken up for revision	Method for verification of scleroscope hardness testing machines (First Revision)	March, 2022	-	Indigenous
106	IS 8632:2023 ISO 3785:2006 ISO 3785:2006	Metallic materials Designation of test specimen axes in relation to product texture		-	Identical under dual numbering

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
<i>No Records Found</i>		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	MTD 3 (05131) Revision of: IS 1828:2015	Metallic Materials - Verification of Static Uniaxial Testing Machines Part 1 Tension Compression Testing Machines - Verification and Calibration of the Force-Measuring System Fourth Revision
2	MTD 3 (05132) Revision of: IS 1828:2015	Metallic Materials - Verification of Static Uniaxial Testing Machines - Part 2 Tension Creep Testing Machines - Verification of the Applied Force First Revision
3	MTD 3 (10405) Revision of: IS 1586:2018	METALLIC MATERIALS-ROCKWELL HARDNESS TEST PART 1 TEST METHOD
4	MTD 3 (10406) Revision of: IS 1586:2018	METALLIC MATERIALS ROCKWELL HARDNESS TEST PART 2 VERIFICATION AND CALIBRATION OF TESTING MACHINES AND INDENTERS
5	MTD 3 (10407) Revision of: IS 1586:2012	METALLIC MATERIALS ROCKWELL HARDNESS TEST PART 3 CALIBRATION OF REFERENCE BLOCKS
6	MTD 3 (10429) Revision of: IS 1717:2018	METALLIC MATERIALS-WIRE-SIMPLE TORSION TEST
7	MTD 3 (10430) Revision of: IS 1755:2018	METALLIC MATERIALS - WIRE - WRAPPING TEST
8	MTD 3 (10431) Revision of: IS 4258:2018	METALLIC MATERIALS - CONVERSION OF HARDNESS VALUES
9	MTD 3 (10432) Revision of: IS 12278:2018	METALLIC MATERIALS - TUBE - RING TENSILE TEST
10	MTD 3 (10433) Revision of: IS 10175:2018	METALLIC MATEIALS - SHEET AND STRIP - ERICHSEN CUPPING TEST
11	MTD 3 (10434) Revision of: IS 12260:2018	METHOD FOR RING EXPANDING TEST ON METALLIC TUBES
12	MTD 3 (10435) Revision of: IS 1608:2005	METALLIC MATEIALS TENSILE TESTING PART 3 METHOD OF TEST AT LOW TEMPERATURE
13	MTD 3 (10436) Revision of: IS 2330:2011	METALLIC MATERIALS - TUBE - FLANGING TEST
14	MTD 3 (10437) Revision of: IS 2328:2018	METALLIC MATERIALS - TUBE - FLATTENING TEST
15	MTD 3 (11284) Revision	METALLIC MATERIALS-MECHANICAL TESTING-VOCABULARY

	of: IS 5069:2018	
16	MTD 3 (11285)	METALLIC MATERIALS-FATIGUE TESTING-FATIGUE CRACK GROWTH METHOD
17	MTD 3 (11286)	METALLIC MATERIALS-FATIGUE TESTING-STRAIN CONTROLLED THERMOMECHANICAL FATIGUE TESTING METHOD
18	MTD 3 (11494) Revision of: IS 1608:2005	METALLIC MATERIAL - TENSILE TESTING - PART 1 METHOD OF TEST AT ROOM TEMPERATURE
19	MTD 3 (12032)	Metallic materials - Torque controlled fatigue testing
20	MTD 3 (12033)	Metallic materials - Sheet and strip - Determination of forming limit curve Part 1 Measurement and application of forming - limit diagrams in the press shops
21	MTD 3 (12034)	Metallic materials - Sheet and strip - Determination of forming limit curves Part 2 Determination of forming-limit curves in the laboratory
22	MTD 3 (12035)	Metallic materials - Fatigue testing - Statistical planning and analysis of data
23	MTD 3 (12036)	Metallic materials - Fatigue testing - Variable amplitude fatigue testing - Part 1 General principles test method and reporting requirements
24	MTD 3 (12037)	Metallic materials - Fatigue testing - Variable amplitude fatigue testing - Part 2 Cycle counting and related data reduction methods
25	MTD 3 (12038)	Metallic materials - Unified method of test for determination of quasistatic fracture toughness
26	MTD 3 (12042)	Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 1 Test method
27	MTD 3 (12043)	Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 2 Verification and calibration of testing machines
28	MTD 3 (12044)	Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 3 Calibration of reference blocks
29	MTD 3 (12045)	Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 4 Test method for metallic and non-metallic coatings
30	MTD 3 (12047)	Metallic materials - Leeb hardness test - Part 1 Test method
31	MTD 3 (12048)	Metallic materials - Leeb hardness test - Part 2 Verification and calibration of the testing devices
32	MTD 3 (12049)	Metallic materials - Leeb hardness test - Part 3 Calibration of reference test blocks
33	MTD 3 (12050) Revision of: IS 1500:2019	Metallic materials - Brinell hardness test - Part 1 Test method
34	MTD 3 (12051) Revision of: IS 1500:2019	Metallic materials - Brinell hardness test - Part 3 Calibration of reference blocks
35	MTD 3 (12052) Revision of: IS 1500:2019	Metallic materials - Brinell hardness test - Part 4 Table of hardness values
36	MTD 3 (12053) Revision of: IS 1599:2019	Metallic materials - Bend Test
37	MTD 3 (14366) Revision of: IS 1757:2020	Metallic Materials Charpy Pendulum Impact Test Part 1 Test Method
38	MTD 3 (14369) Revision of: IS 1757:2020	Metallic Materials Charpy Pendulum Impact Test Part 2 Verification of testing machines
39	MTD 3 (14370) Revision of: IS 1757:2020	Metallic Materials Charpy Pendulum Impact Test Part 3 Preparation and characterization of charpy v notch test pieces for indirect verification of pendulum impact machines
40	MTD 3 (14371) Revision of: IS 3711:2020	Steel And Steel Products- Location and Preparation of Samples And Test Pieces For Mechanical Testing
41	MTD 3 (14372) Revision of: IS 1608:2005	Mechanical testing of metals - Tensile Testing Part 2 METHOD OF TEST AT ELEVATED TEMPERATURE
42	MTD 3 (14815) Revision of: IS 1501:2020	Metallic Materials -Vickers Hardness Test Part 1 Test Method
43	MTD 3 (14817) Revision of: IS 1501:2020	Metallic Materials - Vickers Hardness Test Part 2 Verification and calibration of testing machines
44	MTD 3 (14819) Revision of: IS 1501:2020	Metallic Materials - Vickers Hardness Test Part 3 Calibration of reference Blocks
45	MTD 3 (14825) Revision of: IS 1501:2020	Metallic Materials - Vickers Hardsness Test Part 4 Tables of Hardness Values
46	MTD 3 (14830) Revision of: IS 6885:2020	Metallic materials Knoop hardness test Part 1 Test method
47	MTD 3 (14832) Revision of: IS 6885:2020	Metallic materials knoop hardness test Part 2 Verification and calibration of testing machines
48	MTD 3 (14833) Revision	Metallic materials Knoop hardness test Part 3 Calibration of reference blocks

	of: IS 6885:2020	
49	MTD 3 (14834) Revision of: IS 6885:2020	Metallic Materials - Knoop Hardness Test Part 4 Table of Hardness Values
50	MTD 3 (14836) Revision of: IS 12872:2011	Metallic Materials Calibration of Extensometers Used in Uniaxial Testing
51	MTD 3 (14927)	TENSILE TESTING AT HIGH STRAIN RATES - PART 1 ELASTIC BAR TYPE SYSTEMS
52	MTD 3 (14928)	TENSILE TESTING AT HIGH STRAIN RATES - PART 2 SERVO HYDRAULIC AND OTHER TEST SYSTEMS
53	MTD 3 (14931)	METALLIC MATERIALS-SHEET AND STRIP-HOLE EXPANDING TEST
54	MTD 3 (14933)	METALLIC MATERIALS-TORSION TEST AT AMBIENT TEMPERATURE
55	MTD 3 (14934)	METALLIC MATERIALS-CHARPY V NOTCH PENDULUM IMPACT TEST-INSTRUMENTED TEST METHOD
56	MTD 3 (15245) Revision of: IS 5075:1985	METALLIC MATERIALS - ROTATING BAR BENDING FATIGUE TESTING
57	MTD 3 (15252)	METALLIC MATERIALS DYNAMIC FORCE CALIBRATION FOR UNIAXIAL FATIGUE TESTING PART 1 TESTING SYSTEMS
58	MTD 3 (15253)	METALLIC MATERIALS DYNAMIC FORCE CALIBRATION FOR UNIAXIAL FATIGUE TESTING
59	MTD 3 (15255)	Metallic materials Sheet and strip Biaxial tensile testing method using a cruciform test piece
60	MTD 3 (15256)	Metallic materials Ductility testing High speed compression test for porous and cellular metals
61	MTD 3 (15565) Revision of: IS 1500:2013	Metallic Materials - Brinell Hardness Test Part 2 Verification and Calibration Testing Machines
62	MTD 3 (17184) Revision of: IS 11999:2007	METALLIC MATERIALS SHEET AND STRIP DETERMINATION OF PLASTIC STRAIN RATIO
63	MTD 3 (17205) Revision of: IS 1608:2018	Metallic materials - Tensile testing - Part 1 Method of test at room temperature
64	MTD 3 (17207) Revision of: IS 1828:2015	METALLIC MATERIALS - CALIBRATION AND VERIFICATION OF STATIC UNIAXIAL TESTING MACHINES - PART 1 TENSION COMPRESSION TESTING MACHINES - CALIBRATION AND VERIFICATION OF THE FORCE-MEASURING SYSTEM
65	MTD 3 (17232)	Metallic materials- Uniaxial creep testing in tension - Method of test
66	MTD 3 (17334) Revision of: IS 15756:2007	Metallic materials - Sheet and strip - Determination of tensile strain hardening exponent
67	MTD 3 (17457) Revision of: IS 16842:2018	Metallic materials - Fatigue testing - Fatigue crack growth method
68	MTD 3 (17544)	Metallic materials - Method of test for the determination of quasistatic fracture toughness of welds
69	MTD 3 (18508)	Method for evaluation of tensile properties of metallic superplastic materials
70	MTD 3 (18509)	Mechanical testing of metals Ductility testing Compression test for porous and cellular metals
71	MTD 3 (18510)	Metallic materials Tube ring hydraulic pressure test
72	MTD 3 (18746) Revision of: IS 5074:1969	Metallic materials -- Fatigue testing -- Axial force-controlled method
73	MTD 3 (19703) Revision of: IS 17146:2019	Metallic materials Determination of forming-limit curves for sheet and strip Part 2 Determination of forming-limit curves in the laboratory
74	MTD 3 (20748) Revision of: IS 3803:1989	Steel - Conversion of elongation values Part 1 carbon and low alloy steels
75	MTD 3 (20749) Revision of: IS 3803:1989	Steel Conversion of elongation values Part 2 Austenitic steels
76	MTD 3 (20751) Revision of: IS 8632:1977	Metallic materials Designation of test specimen axes in relation to product texture
77	MTD 3 (20756) Revision of: IS 1716:1985	Metallic materials Wire Reverse bend test
78	MTD 3 (20802) Revision of: IS 13838:1993	MECHANICAL TESTING OF METALS- DETERMINATION OF POISSONS RATIO
79	MTD 3 (20806) Revision of: IS 1598:1977	Izod Impact Test of Metals Method of Test Second Revision
80	MTD 3 (20807) Revision of: IS 10167:1982	Method for upsetting test on metallic materials First Revision
81	MTD 3 (20809) Revision of: IS 6886:1973	Dynamic Force Calibration of Axial Load Fatigue Testing Machines by Means of a Strain Gauge Technique Method of Test First Revision
82	MTD 3 (20811) Revision	Drop Weight Tear Test on Ferritic Steels and Line Pipe Method of Test

	of: IS 10623:1983	
83	MTD 3 (21423) Revision of: IS 17151:2019	Metallic materials Unified method of test for the determination of quasistatic fracture toughness
84	MTD 3 (21424) Revision of: IS 17146:2019	Metallic materials Determination of forming-limit curves for sheet and strip Part 1 Measurement and application of forming-limit diagrams in the press shop
85	MTD 3 (21425) Revision of: IS 1599:2019	Metallic materials Bend test
86	MTD 3 (21426) Revision of: IS 17143:2019	Metallic materials Torque-controlled fatigue testing
87	MTD 3 (21427) Revision of: IS 17415:2020	Metallic materials Torsion test at room temperature
88	MTD 3 (23767) Revision of: IS 17416:2020	Metallic Materials Charpy V-notch Pendulum Impact Test Instrumented Test Method
89	MTD 3 (24371)	Metallic materials Sheet and strip Earing test
90	MTD 3 (24421)	Metallic Materials Fatigue Testing Axial-Strain-Controlled Method
91	MTD 3 (24951) Revision of: IS 3394:1985	Electrical Resistance Alloys for Heating Elements Accelerated Life Test Method of Test
92	MTD 3 (25816) Revision of: IS 1586:2018	Metallic materials Rockwell hardness test Part 1 Test method Sixth Revision
93	MTD 3 (25817) Revision of: IS 1586:2018	Metallic materials Rockwell hardness test Part 2 Verification and calibration of testing machines and indenters Sixth Revision
94	MTD 3 (25818) Revision of: IS 1586:2018	Metallic materials Rockwell hardness test Part 3 Calibration of reference blocks Sixth Revision
95	MTD 3 (25819) Revision of: IS 1501:2020	Metallic materials Vickers hardness test Part 1 Test method Sixth Revision
96	MTD 3 (25830) Revision of: IS 17419:2020	Metallic Materials Ductility Testing High Speed Compression Test for Porous and Cellular Metals Third Revision
97	MTD 3 (25831) Revision of: IS 17795:2022	Metallic materials Uniaxial creep testing in tension Method of test First Revision
98	MTD 3 (25832) Revision of: IS 6885:2020	Metallic materials Knoop hardness test Part 1 Test method Third Revision
99	MTD 3 (32967)	Metallic materials Wire Reverse torsion test
100	MTD 3 (32983)	Metallic Materials - Sheet and Strip - Biaxial Tensile Testing Method Using a Cruciform Test Piece
101	MTD 3 (32988)	Metallic materials Tensile testing Part 5 Specification for testing miniaturised test pieces

Total Published Standards:102 Total Standards Under development:101

Aspect Wise Report

Product : 0
Code of Practices : 3
Methods of Test : 98
Terminology : 1
Dimensions : 2
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 10175 (Part 1):1993 ISO 8490 Reviewed In : 2009	Mechanical testing of metals -Modified erichsen cupping test - sheet and strip Pt 1 Thickness upto 2 mm
2	IS 10588:1983	Tables of Brinell hardness values for use in test made on flat surfaces

	Reviewed In : 2001	
3	IS 10927 (Part 1):1984 Reviewed In : 1996	Tables of Vickers Hardness Values for Use in Tests Made on Flat Surfaces - Part 1 HV 5 to HV 100
4	IS 10927 (Part 2):1984 Reviewed In : 1996	Tables of Vickers Hardness Values for Use in Tests Made on Flat Surfaces - Part 2 Hv 0.2 to Less Than Hv 5
5	IS 10927 (Part 3):1991 Reviewed In : 1999	Tables of Vickers Hardness Values for use in Tests Made on Flat Surfaces - Part 3 Less than HV 0.2
6	IS 12514:1988 ISO 9513 : 1999 Reviewed In : 2020	Method for torsional stress fatigue testing
7	IS 1499:1977 Reviewed In : 2020	Method for charpy impact test U - Notch for metals First Revision
8	IS 1500:2005 IS 1500(Part 1):2013 / ISO 6506-1:2005 Reviewed In : 2010 IS 1500(Part 1):2013 / ISO 6506-1:2005	Method for Brinell Hardness Test for Metallic Materials
9	IS 1501:2002 Reviewed In : 2007	Method For Vickers Hardness Test for Metallic Materials
10	IS 1521:1972	Method for tensile testing of steel wire
11	IS 1586:2000 Reviewed In : 2010	Method for Rockwell Hardness Test for Metallic Material Scales A-B-C-D-E-F-G-H-K 15N 30N 45N 15T 30T and 45T
12	IS 1608:2005 IS 1608:2005 / ISO 6892:1998 Reviewed In : 2017 IS 1608:2005 / ISO 6892:1998	Mechanical testing of metals - Tensile Testing
13	IS 1663:1972	Method for tensile testing of steel sheet and strip of thickness 0.5 mm to 3 mm
14	IS 1663 (Part 2):1962	Tensile testing of steel sheet and strip Part 2 Steel sheet and strip of thickness above 3 mm
15	IS 1692:1974	Method for simple bend testing of steel sheet and strip less than 3 mm thick
16	IS 1754:2002 IS 1754:2002 / ISO 6507-2:1997 Reviewed In : 2020 ISO 6507-2:1997	Method for verification of vickers hardness testing machines Third Revision
17	IS 1754 (Part 1):1986 Reviewed In : 1996	Method for Verification of Vickers Hardness Testing Machines Part I HV 0.2 to HV 100
18	IS 1754 (Part 2):1986 Reviewed In : 1996	Method for Verification of Vickers Hardness Testing Machines Part 2 Less than HV 0.2
19	IS 1756:1974	Methods of modified Erichsen cupping test for steel sheet and strip
20	IS 1789:1961	Method for brinell hardness test for grey cast iron
21	IS 1790:1961	Method for brinell hardness test for light metals and their alloys
22	IS 1810:1961	Method for vickers hardness test for light metals and their alloys
23	IS 1816:1979	Method for tensile test for light metals and their alloys
24	IS 1894:1972	Criteria for earthquake resistant design of structures Fourth Revision
25	IS 2078:1979	Method for tensile testing of grey cast iron
26	IS 223:1950	Tensile Testing Of Metals ferrous

27	IS 2281:2005 IS 2281:2005 / ISO 6506-2:1999 Reviewed In : 2011 IS 2281:2005 / ISO 6506-2:1999	Method for Verification of Brinell Hardness Testing Machines
28	IS 2348:1963 Reviewed In : 2008	Method for drift expanding test on copper and copper alloy tubes
29	IS 2654:1977	Method for tensile testing of copper and copper alloys
30	IS 2655:1964	Method for tensile testing of copper and copper alloy tubes
31	IS 2656:1964	Method for tensile testing of copper and copper alloy wires
32	IS 2657:1964	Method for tensile testing of aluminium and aluminium alloy tube
33	IS 2658:1964	Method for tensile testing for aluminium and aluminium alloy wire
34	IS 2866:1968	Method for Vickers hardness test for copper and copper alloys
35	IS 3054:1965	Method for Brinell hardness test for copper and copper alloys
36	IS 3260:1965	Method For Bend Test For Copper And Copper Alloys
37	IS 3388:1965	Method for wrapping test for copper and copper alloy wire
38	IS 3408:1965	Method for non-interrupted creep testing of steel at elevated temperature
39	IS 3409:1965	Method for creep stress rupture testing of steel of elevated temperature
40	IS 3754:1988 Reviewed In : 1999	Method for calibration of standardized blocks to be used for Rockwell hardness testing machines Scales A-B-C-D-E-F-G-H-K
41	IS 3766:1977 IS 3803(Part 1):1989 / ISO 2566-1 : 1984 Reviewed In : 2020	Method for calibration of pendulum impact testing machines for testing metals First Revision
42	IS 3804:1988 Reviewed In : 1999	Method for calibration of Rockwell hardness testing machines Scales A-B-C-D-E-F-G-H-K
43	IS 4132:2005 Reviewed In : 2011 IS 4132:2005	Method for calibration of standardized blocks to be used for Brinell hardness teing machines
44	IS 4133:2002 IS 4133:2002 / ISO 6507-3:1997 Reviewed In : 2012 IS 4133:2002 / ISO 6507-3:1997	Method for Calibration of Standardized Blocks to be Used for Vickers Hardness Testing Machines
45	IS 4133 (Part 1):1986 Reviewed In : 1996	Method for Calibration of Standardized Blocks to be Used for Vickers Hardness Testing Machines - Part 1 HV 0.2 to HV 100
46	IS 4168:1967	Method for wrapping test of aluminium and aluminium alloy wire
47	IS 4176:1967	Method for simple torsion test of aluminium and aluminium alloy wire
48	IS 4177:1967	Method for flattening test of aluminium and aluminium alloy tubes
49	IS 4598:1968	Method for simple bend test for aluminium and aluminium alloy sheet and strip of thickness between 0.2 mm and 7 mm
50	IS 4599:1968	Method For Drift Expanding Test On Aluminium And Aluminium Alloy Tubes

51	IS 4713:1968	Method for determination of lower yield stress proof stress and proving test for steel at elevated temperatures
52	IS 497:1953	Tensile testing of metals non-ferrous
53	IS 5071:1969	Method for flattening test for copper and copper alloy tubes of circular section
54	IS 5072:1988 Reviewed In : 1999	Method for Rockwell Superficial Hardness Test scale 15n 30n 45n 15t 30t and 45t
55	IS 5073:1988 Reviewed In : 1999	Method for verification of Rockwell superficial hardness testing machines Scales 15N 30N 45N 15T 30T and 45T
56	IS 5076:1988 Reviewed In : 1999	Method for calibration of standardized blocks to be used for rockwell superficial hardness testing machines Scales 15N 30N 45N 15T 30T and 45T
57	IS 5619:1970	Recommendations for fatigue testing of metals
58	IS 6253:1971	Method for simple torsion testing of copper and copper alloy wire
59	IS 6520:1972	Method for the determination of K-values of a tensile testing system
60	IS 6878:1973	Method of reverse bend testing of copper and copper alloy wire
61	IS 6885:1973	Method for Knoop hardness testing of metals
62	IS 7095:1973 Reviewed In : 2010	Method for verification of Knoop hardness testing machines
63	IS 7097:1973 Reviewed In : 2010	Method for Calibration of Standardized Blocks for Verification of Knoop Hardness Testing Machines
64	IS 8285:1976 Reviewed In : 1991	Method for tensile test of copper and copper alloy rolled flat product thickness less than 2.5 mm
65	IS 9258:1979	Method for vickers micro-hardness testing of metals

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
<i>No Records Found</i>		