



INDIAN STANDARDS (BIS) ON WELDING

Sl. No.	IS Number/ DOC Number	Title	Year of Revision	
1	** IS 812:1957	Glossary of terms relating to welding and cutting of metals	Sep 2008	
2	IS 813:1986	Scheme of symbols for welding (revised)	Sep 2008	
3	IS 814:2004	Covered electrodes for manual metal arc welding of carbon and carbon manganese steel (sixth)		1
4	IS 817:1966	Code of practice for training and testing of metal arc welders (revised)	Sep 2008	
5	IS 817(Part 1):1992	Part 1 Manual metal arc welding (second revision)	Sep 2008	
6	IS 817(Part 2):1996	Part 2 Oxyfuel welding (second revision)	Sep 2008	
7	IS 818:1968	Code of practice for safety and health requirements in electric and gas welding and cutting operations (first revision)	Sep 2008	
8	IS 822:1970	Code of procedure for inspection of welds	Sep 2008	
9	* IS 1179:1967	Equipment for eye and face protection during welding (first revision)	Sep 2008	1
10	IS 1278:1972	Filler rods and wires for gas welding (second)	Sep 2008	2
11	IS 1393:1961	Code of practice for training and testing of oxy acetylene welders	Sep 2008	
12	IS 1395:1982	Low and medium alloy steel covered electrodes for manual metal arc welding (third revision)	Sep 2008	
13	IS 2927:1975	Specification for brazing alloys (first revision)	Sep 2008	1
14	IS 3016:1982	Code of practice for fire precautions in welding and cutting operations (first revision)	Mar 2006	
15	IS 3600(Part 1):1985	Methods of testing fusion welded joints and weld metal in steel (second revision) Part 1 Cruciform fillet weld tensile test	Sep 2008	
16	IS 3600(Part 2):1985	Part 2 Beam impact (charpy V-notch) test	Sep 2008	
17	IS 3600(Part 3):1984	Part 3 Transverse tensile test on butt welds	Mar 2006	
18	IS 3600(Part 4):1984	Part 4 Longitudinal tensile test on cylindrical weld metal test pieces on butt welds	Mar 2006	
19	IS 3600(Part 5):1983 / ISO 5173:1981	Part 5 Transverse root and face bend test on butt welds (second revision)	Mar 2006	
20	IS 3600(Part 6):1983 / ISO 5177:1984	Part 6 Transverse side bend test on butt welds (second revision)	Sep 2008	
21	IS 3600(Part 7):1985	Part 7 Longitudinal root and face bend test on butt welds	Sep 2008	
22	IS 3600(Part 8):1985	Part 8 Nick break test and fillet weld fracture test	Sep 2008	



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23	IS 3600(Part 9):1985	Part 9 Macro and micro examination	Sep 2008	
24	* IS 3613:1974	Acceptance tests for wire flux combination for submerged arc welding (first revision)	Mar 2006	1
25	IS 4943:1968	Assessment of butt and fillet fusion welds in steel sheet, plate and pipe	Sep 2008	
26	IS 4972:1968	Resistance spot welding electrodes	Sep 2008	
27	IS 5206:1983	Covered electrodes for manual metal arc welding of stainless steel and other similar high alloy steels (first revision)	Sep 2008	
28	IS 5511:1991	Covered electrodes for manual metal arc welding of cast iron_(first revision)	Sep 2008	1
29	IS 5687:1970	Glossary of terms relating to welding of plastics	Sep 2008	
30	IS 5856:1991	Corrosion and heat resisting chromium-nickel steel solid welding rods, bare electrodes (first revision)	Sep 2008	
31	IS 5857:1970	Nickel and nickel alloy bare solid welding rods and electrodes	Sep 2008	
32	IS 5897:1985	Aluminium and aluminium alloy welding rods and wires and magnesium alloy welding rods (first revision)	Sep 2008	
33	IS 5898:1970	Copper and copper alloy bare solid welding rods and electrodes	Sep 2008	
34	IS 5922:1970	Qualifying tests for welders engaged in aircraft	Sep 2008	1
35	IS 6016:1982	Hose connection for welding and cutting equipment (first revision)	Mar 2006	
36	* IS 6419:1996	Welding rods and bare electrodes for gas shielded arc welding of structural steel (First revision)	Sep 2004	
37	IS 6431:1971	Tolerances on dimensions of plates cut by flame	Sep 2008	
38	IS 6560:1996	Molybdenum and chromium-molybdenum low alloy steel welding rods and bare electrodes for gas shielded arc welding (first revision)	Sep 2004	
39	* IS 6901:1988	Specification for pressure regulators for gas cylinders used in welding, cutting and related processes (first revision)	Mar 2006	2
40	IS 7273:1974	Method of testing fusion welded joints in aluminium and aluminium alloys	Sep 2008	
41	* IS 7280:1974	Bare wire electrodes for submerged arc welding of structural steels	Sep 2008	1
42	IS 7303:1974	Covered electrodes for surfacing of metal by manual arc welding	Sep 2008	
43	IS 7307(Part 1):1974	Approval tests for welding procedures Part 1 fusion welding of steel	Sep 2008	



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Sl. No.	IS Number/ DOC Number	Title	Year of Revision
44	IS 7310(Part 1):1974	Approval tests for welders working to approved welding procedures Part 1 fusion welding of steel	Mar 2006
45	IS 7318(Part 1):1974	Approval tests for welders when welding procedure approval is not required Part 1 Fusion welding of	Sep 2008
46	IS 7318(Part 2):1974	Part 2 TIG or MIG welding of aluminium and its	Sep 2008
47	* IS 7653:1975	Manual blow pipes for welding and cutting	Sep 2008
48	IS 8363:1976	Bare wire electrodes for electroslag welding of steels	Sep 2008
49	IS 8484:1998	Metal powders welding electrodes (first revision)	Sep 2004
50	IS 8666:1977	Copper and copper alloy covered electrodes for manual metal arc welding	Sep 2008
51	IS 8736:1977	Nickel and nickel alloy covered electrodes for metal arc welding	Sep 2008
52	IS 9495:1980	Test for brazeability of brazing alloys	Sep 2008
53	** IS 10793:1983 / ISO 6520:1982	Classification of defects in metallic fusion welds with explanations	Mar 2006
54	* IS 10803:1984	Method of sampling and preparation of weld pad for chemical analysis of weld metal from covered electrodes for manual metal arc welding	Mar 2006
55	IS 10811:1984	Oxygen and acetylene manifold regulators for welding, cutting and related processes	Mar 2006
56	IS 10842:1984	Testing and evaluation procedure for Y groove crackability test	Mar 2006
57	IS 11368(Part 1):1985	³ Comparison of Indian and overseas classification and coding of welding filler materials Part 1 Flux coated mild steel and medium tensile steel electrodes for manual metal arc welding	Sep 2008 1
58	** IS 11802:1986	Method of determination of diffusible hydrogen content of deposited weld metal from covered electrodes in welding mild and low alloy steels	Sep 2008
59	IS 13007:1991 6848:1984	Tungston electrodes for inert gas shielded arc welding and for plasma cutting and welding	Sep 2008
60	IS 13043:1991 2401:1972	Covered manual metal arc welding electrodes - Determination of efficiency, metal recovery and depositin co-efficient	Sep 2008
61	IS 13851:1993	Storage and redrying of covered electrodes before use - recommendations	Mar 2006
62	IS 15387:2003 / ISO 5830:1984	Resistance Spot Welding - Male Electrode Caps	Sep 2008



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Sl. No.	IS Number/ DOC Number	Title	Year of Revision
1	* SP:	ISI Handbook of manual metal-arc welding for welders	Sep 2008
2	* SP 12 : 1975	ISI Handbook for gas welders	Sep 2008
3	* SP 6(7) : 1972	Handbook for structural engineers simple welded	Sep 2008
4	IS 816:1969	Code of practice for use of metal arc welding for General construction in mild steel (first revision)	Sep 2008 ¹
5	IS 819:1957	Code of practice for resistance spot welding for light assemblies in mild steel	Sep 2008
6	IS 1024:1999	Code of practice for use of welding in bridges and structures subject to dynamic loading (first revision)	Feb 2005
7	IS 1261:1959	Code of practice for seam welding in mild steel	Sep 2008 ¹
8	IS 1323:1982	Code of practice for oxy-acetylene welding for work in mild steels (second revision)	Sep 2008
9	IS 2751:1979	Recommended practice for welding of mild steel plain and deformed bars for reinforced construction (first revision)	Sep 2008
10	* IS 2811:1987	Recommendations for manual tungsten inert gas arc welding of stainless steel (first revision)	Sep 2008 ¹
11	* IS 2812:1993	Recommendations for manual tungsten inert gas arc welding of aluminium and aluminium alloys (first revision)	Sep 2008
12	IS 3023:1965	Recommended practice for building up by metal spraying	Sep 2008
13	IS 3525:1998	Metal arc welding for hull constructions of merchant ships in carbon and carbon-manganese steels (second revision)	Sep 2008
14	IS 4353:1995	Submerged arc welding of mild steel and low alloy Steels - Recommendations (first revision)	
15	IS 5139:1995	Repair of cast iron castings by oxy-acetylene and manual metal arc welding - Recommendations (first revision)	
16	IS 5530:2005	Recommendations for production rectification and repair of steel castings by metal arc welding process (second revision)	
17	IS 6409:1971	Code of practice for oxy-acetylene flame cleaning	Sep 2008
18	IS 6916:1973	Code of practice for fabrication welding of steel castings	Sep 2008
19	IS 8002:1976	Recommended procedure for welding of flexible PVC	Sep 2008
20	IS 8004:1976	Recommended procedure for welding of rigid PVC	Mar 2008
21	IS 8455:1977	Recommended procedure for welding of polythene	Sep 2008



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Sl. No.	IS Number/ DOC Number	Title	Year of Revision
22	IS 8987:1978	Recommended practice for air carbon arc gauging & cutting	Sep 2008
23	IS 9006:1978	Recommended practice for welding of clad steels	Sep 2008
24	IS 9417:1989	Recommendations for welding cold worked bars for reinforced concrete construction (first revision)	Sep 2008
25	IS 9524:1980	Recommended procedure for repair welding of steel components by alumino-thermic process	Jun 2007 1
26	IS 9595:1996	Metal arc welding of carbon and carbon manganese steels - Recommendations (first revision)	Jun 2007
27	IS 10178:1995	CO2 gas shielded metal arc welding of structural steels - Recommendations (first revision)	Mar 2006
28	IS 10186:1982	Recommendations for manual tungsten inert gas arc welding of copper and copper alloys	Sep 2008
29	IS 10234:1982	Recommendations for general pipeline welding	Sep 2008
1			
30	* IS 10801:1984	Recommended procedure for heat treatment of welded fabrications	Sep 2008
31	* IS 11991:1986	Recommended practice for flash butt welding of tubes, rods and other sections in carbon and alloy steel	Sep 2008
32	IS 14289:1995	Manual tungsten inert gas arc welding of nickel and nickel alloys - Recommendations	Mar 2006
33	IS 14419:1996	Acceptance standards for radiographic examination of welds for ships – Recommendations	Sep 2008
34	IS 15326(Part 1):2003 / ISO 3834(Pt 1):1994	Quality requirement for welding -Fusion welding of metallic material Part 1 Guidelines for selection and use	
35	IS 15326(Part 2):2003 / ISO 3834(Pt 2):1994	Quality requirement for welding -Fusion welding of metallic material Part 2 Comprehensive quality requirements	
36	IS 15326(Part 3):2003 / ISO 3834(Pt 3):1994	Quality requirement for welding -Fusion welding of metallic material Part 3 Standards quality requirements	
37	IS 15326(Part 4):2003 / ISO 3834(Pt 4):1994	Quality requirement for welding -Fusion welding of metallic material Part 4 Elementary quality requirements	
38	IS 15327:2003 / ISO 14731:1997	Welding coordination - Tasks and responsibility	
39	IS 15728:2006 / 15620:2000	Welding - Friction welding of metallic materials	