



STANDARDS FOR WELDING (ISO)

Standards and projects under the direct responsibility of TC 44 Secretariat

[ISO 3677:1992](#)

Filler metal for soft soldering, brazing and braze welding -- Designation

[ISO 5187:1985](#)

Welding and allied processes -- Assemblies made with soft solders and brazing filler metals -- Mechanical test methods

[ISO 10564:1993](#)

Soldering and brazing materials -- Methods for the sampling of soft solders for analysis

[ISO 15614-10:2005](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 10: Hyperbaric dry welding

[ISO 18279:2003](#)

Brazing -- Imperfections in brazed joints

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[ISO 544:2003](#)

Welding consumables -- Technical delivery conditions for welding filler materials -- Type of product, dimensions, tolerances and markings

[ISO 636:2004](#)

Welding consumables -- Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels -- Classification

[ISO 1071:2003](#)

Welding consumables - Covered electrodes, wires, rods and tubular cored electrodes for fusion welding of cast iron - Classification

[ISO 2401:1972](#)

Covered electrodes -- Determination of the efficiency, metal recovery and deposition coefficient

[ISO 2560:2002](#)

Welding consumables -- Covered electrodes for manual metal arc welding of non-alloy and fine grain steels -- Classification

[ISO 3581:2003](#)

Welding consumables -- Covered electrodes for manual metal arc welding of stainless and heat-resisting steels -- Classification

[ISO 3581:2003/Cor 1:2008](#)



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[ISO 6848:2004](#)

Arc welding and cutting -- Nonconsumable tungsten electrodes -- Classification

[ISO 14171:2002](#)

Welding consumables -- Wire electrodes and wire-flux combinations for submerged arc welding of non alloy and fine grain steels -- Classification

[ISO 14172:2003](#)

Welding consumables -- Covered electrodes for manual metal arc welding of nickel and nickel alloys -- Classification

[ISO 14172:2003/Cor 1:2004](#)

[ISO 14172:2003/Cor 2:2005](#)

[ISO 14174:2004](#)

Welding consumables -- Fluxes for submerged arc welding -- Classification

[ISO 14175:2008](#)

Welding consumables -- Gases and gas mixtures for fusion welding and allied processes

[ISO 14341:2002](#)

Welding consumables -- Wire electrodes and deposits for gas shielded metal arc welding of non alloy and fine grain steels -- Classification

[ISO 15792-1:2000](#)

Welding consumables -- Test methods -- Part 1: Test methods for all-weld metal test specimens in steel, nickel and nickel alloys

[ISO 15792-2:2000](#)

Welding consumables -- Test methods -- Part 2: Preparation of single-run and two-run technique test specimens in steel

[ISO 15792-3:2000](#)

Welding consumables -- Test methods -- Part 3: Classification testing of positional capacity and root penetration of welding consumables in a fillet weld

[ISO 15792-3:2000/Cor 1:2006](#)

[ISO 16834:2006](#)

Welding consumables -- Wire electrodes, wires, rods and deposits for gas-shielded arc welding of high strength steels -- Classification

[ISO 17632:2004](#)

Welding consumables -- Tubular cored electrodes for gas shielded and non-gas shielded metal arc welding of non-alloy and fine grain steels -- Classification



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[ISO 17633:2004](#)

Welding consumables -- Tubular cored electrodes and rods for gas shielded and non-gas shielded metal arc welding of stainless and heat-resisting steels -- Classification

[ISO 17634:2004](#)

Welding consumables -- Tubular cored electrodes for gas shielded metal arc welding of creep-resisting steels -- Classification

[ISO 18273:2004](#)

Welding consumables -- Wire electrodes, wires and rods for welding of aluminium and aluminium alloys -- Classification

[ISO 18274:2004](#)

Welding consumables -- Wire and strip electrodes, wires and rods for fusion welding of nickel and nickel alloys -- Classification

[ISO 18274:2004/Cor 1:2005](#)

[ISO 18274:2004/Cor 2:2006](#)

[ISO 18275:2005](#)

Welding consumables -- Covered electrodes for manual metal arc welding of high-strength steels -- Classification

[ISO 18275:2005/Cor 1:2007](#)

[ISO 18276:2005](#)

Welding consumables -- Tubular cored electrodes for gas-shielded and non-gas-shielded metal arc welding of high-strength steels -- Classification

[ISO 21952:2007](#)

Welding consumables -- Wire electrodes, wires, rods and deposits for gas-shielded arc welding of creep-resisting steels -- Classification

[ISO 24034:2005](#)

Welding consumables -- Solid wires and rods for fusion welding of titanium and titanium alloys -- Classification

[ISO 24034:2005/Amd 1:2008](#)

[ISO 24373:2008](#)

Welding consumables -- Solid wires and rods for fusion welding of copper and copper alloys -- Classification



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[ISO 24598:2007](#)

Welding consumables -- Solid wire electrodes, tubular cored electrodes and electrode/flux combinations for submerged arc welding of creep-resisting steels -- Classification

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[ISO 4136:2001](#)

Destructive tests on welds in metallic materials -- Transverse tensile test

[ISO 5173:2000](#)

Destructive tests on welds in metallic materials -- Bend tests

[ISO 5178:2001](#)

Destructive tests on welds in metallic materials -- Longitudinal tensile test on weld metal in fusion welded joints

[ISO 9015-1:2001](#)

Destructive tests on welds in metallic materials -- Hardness testing -- Part 1: Hardness test on arc welded joints

[ISO 9015-2:2003](#)

Destructive tests on welds in metallic materials -- Hardness testing -- Part 2: Microhardness testing of welded joints

[ISO 9016:2001](#)

Destructive tests on welds in metallic materials -- Impact tests -- Test specimen location, notch orientation and examination

[ISO 9017:2001](#)

Destructive tests on welds in metallic materials -- Fracture test

[ISO 9018:2003](#)

Destructive tests on welds in metallic materials -- Tensile test on cruciform and lapped joints

[ISO 10675-1:2008](#)

Non-destructive testing of welds -- Acceptance levels for radiographic testing -- Part 1: Steel, nickel, titanium and their alloys

[ISO/TR 16060:2003](#)

Destructive tests on welds in metallic materials -- Etchants for macroscopic and microscopic examination

[ISO 17635:2003](#)

Non-destructive testing of welds -- General rules for fusion welds in metallic materials



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[ISO 17636:2003](#)

Non-destructive testing of welds -- Radiographic testing of fusion-welded joints

[ISO 17637:2003](#)

Non-destructive testing of welds -- Visual testing of fusion-welded joints

[ISO 17638:2003](#)

Non-destructive testing of welds -- Magnetic particle testing

[ISO 17639:2003](#)

Destructive tests on welds in metallic materials -- Macroscopic and microscopic examination of welds

[ISO 17640:2005](#)

Non-destructive testing of welds -- Ultrasonic testing of welded joints

[ISO 17641-1:2004](#)

Destructive tests on welds in metallic materials -- Hot cracking tests for weldments -- Arc welding processes -- Part 1: General

[ISO 17641-2:2005](#)

Destructive tests on welds in metallic materials -- Hot cracking tests for weldments -- Arc welding processes -- Part 2: Self-restraint tests

[ISO/TR 17641-3:2005](#)

Destructive tests on welds in metallic materials -- Hot cracking tests for weldments -- Arc welding processes -- Part 3: Externally loaded tests

[ISO 17642-1:2004](#)

Destructive tests on welds in metallic materials -- Cold cracking tests for weldments -- Arc welding processes -- Part 1: General

[ISO 17642-2:2005](#)

Destructive tests on welds in metallic materials -- Cold cracking tests for weldments -- Arc welding processes -- Part 2: Self-restraint tests

[ISO 17642-3:2005](#)

Destructive tests on welds in metallic materials -- Cold cracking tests for weldments -- Arc welding processes -- Part 3: Externally loaded tests

[ISO 17643:2005](#)

Non-destructive testing of welds -- Eddy current testing of welds by complex-plane analysis



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[ISO 17655:2003](#)

Destructive tests on welds in metallic materials -- Method for taking samples for delta ferrite measurement

[ISO 22825:2006](#)

Non-destructive testing of welds -- Ultrasonic testing -- Testing of welds in austenitic steels and nickel-based alloys

[ISO 22826:2005](#)

Destructive tests on welds in metallic materials -- Hardness testing of narrow joints welded by laser and electron beam (Vickers and Knoop hardness tests)

[ISO 23277:2006](#)

Non-destructive testing of welds -- Penetrant testing of welds -- Acceptance levels

[ISO 23278:2006](#)

Non-destructive testing of welds -- Magnetic particle testing of welds -- Acceptance levels

[ISO 23279:2007](#)

Non-destructive testing of welds -- Ultrasonic testing -- Characterization of indications in welds

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[ISO 669:2000](#)

Resistance welding -- Resistance welding equipment -- Mechanical and electrical requirements

[ISO 693:1982](#)

Dimensions of seam welding wheel blanks

[ISO 865:1981](#)

Slots in platens for projection welding machines

[ISO 1089:1980](#)

Electrode taper fits for spot welding equipment -- Dimensions

[ISO 5182:2008](#)

Resistance welding -- Materials for electrodes and ancillary equipment

[ISO 5183-1:1998](#)

Resistance welding equipment -- Electrode adaptors, male taper 1:10 -- Part 1: Conical fixing, taper 1:10



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[ISO 5183-2:2000](#)

Resistance spot welding -- Electrode adaptors, male taper 1:10 -- Part 2: Parallel shank fixing for end-thrust electrodes

[ISO 5184:1979](#)

Straight resistance spot welding electrodes

[ISO 5821:1979](#)

Resistance spot welding electrode caps

[ISO 5822:1988](#)

Spot welding equipment -- Taper plug gauges and taper ring gauges

[ISO 5826:1999](#)

Resistance welding equipment -- Transformers -- General specifications applicable to all transformers

[ISO 5827:1983](#)

Spot welding -- Electrode back-ups and clamps

[ISO 5828:2001](#)

Resistance welding equipment -- Secondary connecting cables with terminals connected to water-cooled lugs -- Dimensions and characteristics

[ISO 5829:1984](#)

Resistance spot welding -- Electrode adaptors, female taper 1 : 10

[ISO 5830:1984](#)

Resistance spot welding -- Male electrode caps

[ISO 6210-1:1991](#)

Cylinders for robot resistance welding guns -- Part 1: General requirements

[ISO 7284:1993](#)

Resistance welding equipment -- Particular specifications applicable to transformers with two separate secondary windings for multi-spot welding, as used in the automobile industry

[ISO 7285:1995](#)

Pneumatic cylinders for mechanized multiple spot welding

[ISO 7286:1986](#)

Graphical symbols for resistance welding equipment

[ISO 7931:1985](#)

Insulation caps and bushes for resistance welding equipment



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[ISO 8166:2003](#)

Resistance welding -- Procedure for the evaluation of the life of spot welding electrodes using constant machine settings

[ISO 8167:1989](#)

Projections for resistance welding

[ISO 8205-1:2002](#)

Water-cooled secondary connection cables for resistance welding -- Part 1: Dimensions and requirements for double-conductor connection cables

[ISO 8205-2:2002](#)

Water-cooled secondary connection cables for resistance welding -- Part 2: Dimensions and requirements for single-conductor connection cables

[ISO 8205-3:1993](#)

Water-cooled secondary connection cables for resistance welding -- Part 3: Test requirements

[ISO 8430-1:1988](#)

Resistance spot welding -- Electrode holders -- Part 1: Taper fixing 1:10

[ISO 8430-2:1988](#)

Resistance spot welding -- Electrode holders -- Part 2: Morse taper fixing

[ISO 8430-3:1988](#)

Resistance spot welding -- Electrode holders -- Part 3: Parallel shank fixing for end thrust

[ISO 8430-3:1988/Cor 1:1990](#)

[ISO 9312:1990](#)

Resistance welding equipment -- Insulated pins for use in electrode back-ups

[ISO 9313:1989](#)

Resistance spot welding equipment -- Cooling tubes

[ISO 10656:1996](#)

Electric resistance welding -- Integrated transformers for welding guns

[ISO 10656:1996/Cor 1:2000](#)

[ISO 12145:1998](#)

Resistance welding equipment -- Angles for mounting spot welding electrodes

[ISO 12166:1997](#)

Resistance welding equipment -- Particular specifications applicable to transformers with one secondary winding for multi-spot welding, as used in the automobile industry



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[ISO 14327:2004](#)

Resistance welding -- Procedures for determining the weldability lobe for resistance spot, projection and seam welding

[ISO 14554-1:2000](#)

Quality requirements for welding -- Resistance welding of metallic materials -- Part 1: Comprehensive quality requirements

[ISO 14554-2:2000](#)

Quality requirements for welding -- Resistance welding of metallic materials -- Part 2: Elementary quality requirements

[ISO 15609-5:2004](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure specification -- Part 5: Resistance welding

[ISO 15614-12:2004](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 12: Spot, seam and projection welding

[ISO 15614-13:2005](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 13: Resistance butt and flash welding

[ISO 17653:2003](#)

Destructive tests on welds in metallic materials -- Torsion test of resistance spot welds

[ISO 17654:2003](#)

Destructive tests on welds in metallic materials -- Resistance welding -- Pressure test on resistance seam welds

[ISO 17657-1:2005](#)

Resistance welding -- Welding current measurement for resistance welding -- Part 1: Guidelines for measurement

[ISO 17657-2:2005](#)

Resistance welding -- Welding current measurement for resistance welding -- Part 2: Welding current meter with current sensing coil

[ISO 17657-3:2005](#)

Resistance welding -- Welding current measurement for resistance welding -- Part 3: Current sensing coil

[ISO 17657-4:2005](#)

Resistance welding -- Welding current measurement for resistance welding -- Part 4: calibration



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[ISO 17657-5:2005](#)

Resistance welding -- Welding current measurement for resistance welding -- Part 5:
Verification of welding current measuring system

[ISO 18278-1:2004](#)

Resistance welding -- Weldability -- Part 1: Assessment of weldability for resistance spot,
seam and projection welding of metallic materials

[ISO 18278-2:2004](#)

Resistance welding -- Weldability -- Part 2: Alternative procedures for the assessment of sheet
steels for spot welding

[ISO 18594:2007](#)

Resistance spot-, projection- and seam-welding -- Method for determining the transition
resistance on aluminium and steel material

[ISO 18595:2007](#)

Resistance welding -- Spot welding of aluminium and aluminium alloys -- Weldability, welding
and testing

[ISO 22829:2007](#)

Resistance welding -- Transformer-rectifier for welding guns with integrated transformers --
Transformer-rectifier units operating at 1000 Hz frequency

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[ISO/TR 581:2005](#)

Weldability -- Metallic materials -- General principles

[ISO 857-1:1998](#)

Welding and allied processes -- Vocabulary -- Part 1: Metal welding processes

[ISO 857-2:2005](#)

Welding and allied processes -- Vocabulary -- Part 2: Soldering and brazing processes and
related terms

[ISO 2553:1992](#)

Welded, brazed and soldered joints -- Symbolic representation on drawings

[ISO 4063:1998](#)

Welding and allied processes -- Nomenclature of processes and reference numbers

[ISO 6520-1:2007](#)

Welding and allied processes -- Classification of geometric imperfections in metallic materials -
- Part 1: Fusion welding



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[ISO 6520-2:2001](#)

Welding and allied processes -- Classification of geometric imperfections in metallic materials -
- Part 2: Welding with pressure

[ISO 6947:1990](#)

Welds -- Working positions -- Definitions of angles of slope and rotation

[ISO 9692-1:2003](#)

Welding and allied processes -- Recommendations for joint preparation -- Part 1: Manual metal-arc welding, gas-shielded metal-arc welding, gas welding, TIG welding and beam welding of steels

[ISO 9692-2:1998](#)

Welding and allied processes -- Joint preparation -- Part 2: Submerged arc welding of steels

[ISO 9692-3:2000](#)

Welding and allied processes -- Recommendations for joint preparation -- Part 3: Metal inert gas welding and tungsten inert gas welding of aluminium and its alloys

[ISO 9692-4:2003](#)

Welding and allied processes -- Recommendations for joint preparation -- Part 4: Clad steels

[ISO 17658:2002](#)

Welding -- Imperfections in oxyfuel flame cuts, laser beam cuts and plasma cuts --
Terminology

[ISO 17659:2002](#)

Welding -- Multilingual terms for welded joints with illustrations

[ISO/TS 17845:2004](#)

Welding and allied processes -- Designation system for imperfections

[ISO/TR 25901:2007](#)

Welding and related processes -- Vocabulary

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[ISO 2503:1998](#)

Gas welding equipment -- Pressure regulators for gas cylinders used in welding, cutting and allied processes up to 300 bar

[ISO 3253:1998](#)

Gas welding equipment -- Hose connections for equipment for welding, cutting and allied processes



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[ISO 3821:1998](#)

Gas welding equipment -- Rubber hoses for welding, cutting and allied processes

[ISO 5171:1995](#)

Pressure gauges used in welding, cutting and allied processes

[ISO 5172:2006](#)

Gas welding equipment -- Blowpipes for gas welding, heating and cutting -- Specifications and tests

[ISO 5175:1987](#)

Equipment used in gas welding, cutting and allied processes -- Safety devices for fuel gases and oxygen or compressed air -- General specifications, requirements and tests

[ISO 7287:2002](#)

Graphical symbols for thermal cutting equipment

[ISO 7289:1996](#)

Quick-action couplings with shut-off valves for gas welding, cutting and allied processes

[ISO 7291:1999](#)

Gas welding equipment -- Pressure regulators for manifold systems used in welding, cutting and allied processes up to 300 bar

[ISO 7292:1997](#)

Flowmeter regulators used on cylinders for welding, cutting and allied processes -- Classification and specifications

[ISO 8206:1991](#)

Acceptance tests for oxygen cutting machines -- Reproducible accuracy -- Operational characteristics

[ISO 8207:1996](#)

Gas welding equipment -- Specification for hose assemblies for equipment for welding, cutting and allied processes

[ISO 9012:2008](#)

Gas welding equipment -- Air-aspirated hand blowpipes -- Specifications and tests

[ISO 9013:2002](#)

Thermal cutting -- Classification of thermal cuts -- Geometrical product specification and quality tolerances

[ISO 9090:1989](#)

Gas tightness of equipment for gas welding and allied processes



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[ISO 9539:1988](#)

Materials for equipment used in gas welding, cutting and allied processes

[ISO 12170:1996](#)

Gas welding equipment -- Thermoplastic hoses for welding and allied processes

[ISO 14112:1996](#)

Gas welding equipment -- Small kits for gas brazing and welding

[ISO 14113:2007](#)

Gas welding equipment -- Rubber and plastics hose and hose assemblies for use with industrial gases up to 450 bar (45 MPa)

[ISO 14114:1999](#)

Gas welding equipment -- Acetylene manifold systems for welding, cutting and allied processes -- General requirements

[ISO 15296:2004](#)

Gas welding equipment -- Vocabulary -- Terms used for gas welding equipment

[ISO 15615:2002](#)

Gas welding equipment -- Acetylene manifold systems for welding, cutting and allied processes -- Safety requirements in high-pressure devices

[ISO 10882-1:2001](#)

Health and safety in welding and allied processes -- Sampling of airborne particles and gases in the operator's breathing zone -- Part 1: Sampling of airborne particles

[ISO 10882-2:2000](#)

Health and safety in welding and allied processes -- Sampling of airborne particles and gases in the operator's breathing zone -- Part 2: Sampling of gases

[ISO 15011-1:2002](#)

Health and safety in welding and allied processes -- Laboratory method for sampling fume and gases generated by arc welding -- Part 1: Determination of emission rate and sampling for analysis of particulate fume

[ISO 15011-2:2003](#)

Health and safety in welding and allied processes -- Laboratory method for sampling fume and gases generated by arc welding -- Part 2: Determination of emission rates of gases, except ozone

[ISO 15011-4:2006](#)

Health and safety in welding and allied processes -- Laboratory method for sampling fume and gases -- Part 4: Fume data sheets



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[ISO/TS 15011-5:2006](#)

Health and safety in welding and allied processes -- Laboratory method for sampling fume and gases -- Part 5: Identification of thermal-degradation products generated when welding or cutting through products composed wholly or partly of organic materials

[ISO 15012-1:2004](#)

Health and safety in welding and allied processes -- Requirements testing and marking of equipment for air filtration -- Part 1: Testing of the separation efficiency for welding fume

[ISO 15012-2:2008](#)

Health and safety in welding and allied processes -- Requirements, testing and marking of equipment for air filtration -- Part 2: Determination of the minimum air volume flow rate of captor hoods and nozzles

[ISO 17846:2004](#)

Welding and allied processes -- Health and safety -- Wordless precautionary labels for equipment and consumables used in arc welding and cutting

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[ISO 3834-1:2005](#)

Quality requirements for fusion welding of metallic materials -- Part 1: Criteria for the selection of the appropriate level of quality requirements

[ISO 3834-2:2005](#)

Quality requirements for fusion welding of metallic materials -- Part 2: Comprehensive quality requirements

[ISO 3834-3:2005](#)

Quality requirements for fusion welding of metallic materials -- Part 3: Standard quality requirements

[ISO 3834-4:2005](#)

Quality requirements for fusion welding of metallic materials -- Part 4: Elementary quality requirements

[ISO 3834-5:2005](#)

Quality requirements for fusion welding of metallic materials -- Part 5: Documents with which it is necessary to conform to claim conformity to the quality requirements of ISO 3834-2, ISO 3834-3 or ISO 3834-4

[ISO 3834-5:2005/Cor 1:2007](#)



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[ISO/TR 3834-6:2007](#)

Quality requirements for fusion welding of metallic materials -- Part 6: Guidelines on implementing ISO 3834

[ISO 5817:2003](#)

Welding -- Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) -- Quality levels for imperfections

[ISO 5817:2003/Cor 1:2006](#)

[ISO 10042:2005](#)

Welding -- Arc-welded joints in aluminium and its alloys -- Quality levels for imperfections

[ISO 10042:2005/Cor 1:2006](#)

[ISO 13916:1996](#)

Welding -- Guidance on the measurement of preheating temperature, interpass temperature and preheat maintenance temperature

[ISO 13918:2008](#)

Welding -- Studs and ceramic ferrules for arc stud welding

[ISO 13919-1:1996](#)

Welding -- Electron and laser-beam welded joints -- Guidance on quality levels for imperfections -- Part 1: Steel

[ISO 13919-2:2001](#)

Welding -- Electron and laser beam welded joints -- Guidance on quality levels for imperfections -- Part 2: Aluminium and its weldable alloys

[ISO 13920:1996](#)

Welding -- General tolerances for welded constructions -- Dimensions for lengths and angles -- Shape and position

[ISO 14555:2006](#)

Welding -- Arc stud welding of metallic materials

[ISO 14744-1:2008](#)

Welding -- Acceptance inspection of electron beam welding machines -- Part 1: Principles and acceptance conditions

[ISO 14744-2:2000](#)

Welding -- Acceptance inspection of electron beam welding machines -- Part 2: Measurement of accelerating voltage characteristics



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[ISO 14744-3:2000](#)

Welding -- Acceptance inspection of electron beam welding machines -- Part 3: Measurement of beam current characteristics

[ISO 14744-4:2000](#)

Welding -- Acceptance inspection of electron beam welding machines -- Part 4: Measurement of welding speed

[ISO 14744-5:2000](#)

Welding -- Acceptance inspection of electron beam welding machines -- Part 5: Measurement of run-out accuracy

[ISO 14744-6:2000](#)

Welding -- Acceptance inspection of electron beam welding machines -- Part 6: Measurement of stability of spot position

[ISO 15607:2003](#)

Specification and qualification of welding procedures for metallic materials -- General rules

[ISO 15607:2003/Cor 1:2005](#)

[ISO/TR 15608:2005](#)

Welding -- Guidelines for a metallic materials grouping system

[ISO 15609-1:2004](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure specification -- Part 1: Arc welding

[ISO 15609-1:2004/Cor 1:2005](#)

[ISO 15609-2:2001](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure specification -- Part 2: Gas welding

[ISO 15609-3:2004](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure specification -- Part 3: Electron beam welding

[ISO 15609-4:2004](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure specification -- Part 4: Laser beam welding

[ISO 15610:2003](#)

Specification and qualification of welding procedures for metallic materials -- Qualification based on tested welding consumables



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[ISO 15611:2003](#)

Specification and qualification of welding procedures for metallic materials -- Qualification based on previous welding experience

[ISO 15612:2004](#)

Specification and qualification of welding procedures for metallic materials -- Qualification by adoption of a standard welding procedure

[ISO 15613:2004](#)

Specification and qualification of welding procedures for metallic materials -- Qualification based on pre-production welding test

[ISO 15614-1:2004](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys

[ISO 15614-1:2004/Cor 1:2005](#)

[ISO 15614-1:2004/Amd 1:2008](#)

[ISO 15614-2:2005](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 2: Arc welding of aluminium and its alloys

[ISO 15614-2:2005/Cor 1:2005](#)

[ISO 15614-3:2008](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 3: Fusion welding of non-alloyed and low-alloyed cast irons

[ISO 15614-4:2005](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 4: Finishing welding of aluminium castings

[ISO 15614-4:2005/Cor 1:2007](#)

[ISO 15614-5:2004](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 5: Arc welding of titanium, zirconium and their alloys

[ISO 15614-6:2006](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 6: Arc and gas welding of copper and its alloys



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[ISO 15614-7:2007](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 7: Overlay welding

[ISO 15614-8:2002](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 8: Welding of tubes to tube-plate joints

[ISO 15614-11:2002](#)

Specification and qualification of welding procedures for metallic materials -- Welding procedure test -- Part 11: Electron and laser beam welding

[ISO 15616-1:2003](#)

Acceptance tests for CO₂-laser beam machines for high quality welding and cutting -- Part 1: General principles, acceptance conditions

[ISO 15616-2:2003](#)

Acceptance tests for CO₂-laser beam machines for high quality welding and cutting -- Part 2: Measurement of static and dynamic accuracy

[ISO 15616-3:2003](#)

Acceptance tests for CO₂-laser beam machines for high quality welding and cutting -- Part 3: Calibration of instruments for measurement of gas flow and pressure

[ISO 15620:2000](#)

Welding -- Friction welding of metallic materials

[ISO/TS 17477:2003](#)

Acceptance tests for CO₂-laser beam machines for welding and cutting using 2D moving optics type

[ISO 17652-1:2003](#)

Welding -- Test for shop primers in relation to welding and allied processes -- Part 1: General requirements

[ISO 17652-2:2003](#)

Welding -- Test for shop primers in relation to welding and allied processes -- Part 2: Welding properties of shop primers

[ISO 17652-3:2003](#)

Welding -- Test for shop primers in relation to welding and allied processes -- Part 3: Thermal cutting



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[ISO 17652-4:2003](#)

Welding -- Test for shop primers in relation to welding and allied processes -- Part 4:
Emission of fumes and gases

[ISO 17660-1:2006](#)

Welding -- Welding of reinforcing steel -- Part 1: Load-bearing welded joints

[ISO 17660-2:2006](#)

Welding -- Welding of reinforcing steel -- Part 2: Non load-bearing welded joints

[ISO 17662:2005](#)

Welding -- Calibration, verification and validation of equipment used for welding, including
ancillary activities

[ISO/TR 17663:2001](#)

Welding -- Guidelines for quality requirements for heat treatment in connection with welding
and allied processes

[ISO/TR 17671-1:2002](#)

Welding -- Recommendations for welding of metallic materials -- Part 1: General guidance for
arc welding

[ISO/TR 17671-2:2002](#)

Welding -- Recommendations for welding of metallic materials -- Part 2: Arc welding of ferritic
steels

[ISO/TR 17671-3:2002](#)

Welding -- Recommendations for welding of metallic materials -- Part 3: Arc welding of
stainless steels

[ISO/TR 17671-4:2002](#)

Welding -- Recommendations for welding of metallic materials -- Part 4: Arc welding of
aluminium and aluminium alloys

[ISO/TR 17671-5:2004](#)

Welding -- Recommendations for welding of metallic materials -- Part 5: Welding of clad
steels

[ISO/TR 17671-6:2005](#)

Welding -- Recommendations for welding of metallic materials -- Part 6: Laser beam welding

[ISO/TR 17671-7:2004](#)

Welding -- Recommendations for welding of metallic materials -- Part 7: Electron beam
welding



STANDARDS FOR WELDING (ISO)

[ISO/TR 17844:2004](#)

Welding -- Comparison of standardised methods for the avoidance of cold cracks

[ISO/TR 20172:2006](#)

Welding -- Grouping systems for materials -- European materials

[ISO/TR 20173:2005](#)

Welding -- Grouping systems for materials -- American materials

[ISO/TR 20174:2005](#)

Welding -- Grouping systems for materials -- Japanese materials

[ISO 22827-1:2005](#)

Acceptance tests for Nd:YAG laser beam welding machines -- Machines with optical fibre delivery -- Part 1: Laser assembly

[ISO 22827-2:2005](#)

Acceptance tests for Nd:YAG laser beam welding machines -- Machines with optical fibre delivery -- Part 2: Moving mechanism

Standards and projects under the direct responsibility of TC 44/SC 11 Secretariat

[ISO 9606-1:1994](#)

Approval testing of welders -- Fusion welding -- Part 1: Steels

[ISO 9606-1:1994/Amd 1:1998](#)

[ISO 9606-2:2004](#)

Qualification test of welders -- Fusion welding -- Part 2: Aluminium and aluminium alloys

[ISO 9606-3:1999](#)

Approval testing of welders -- Fusion welding -- Part 3: Copper and copper alloys

[ISO 9606-4:1999](#)

Approval testing of welders -- Fusion welding -- Part 4: Nickel and nickel alloys

[ISO 9606-5:2000](#)

Approval testing of welders -- Fusion welding -- Part 5: Titanium and titanium alloys, zirconium and zirconium alloys

[ISO 14731:2006](#)

Welding coordination -- Tasks and responsibilities

[ISO 14732:1998](#)

Welding personnel -- Approval testing of welding operators for fusion welding and of resistance weld setters for fully mechanized and automatic welding of metallic materials



STANDARDS FOR WELDING (ISO)

[ISO 15618-1:2001](#)

Qualification testing of welders for underwater welding -- Part 1: Diver-welders for hyperbaric wet welding

[ISO 15618-2:2001](#)

Qualification testing of welders for underwater welding -- Part 2: Diver-welders and welding operators for hyperbaric dry welding

Standards and projects under the direct responsibility of TC 44/SC 12 Secretariat

[ISO 5179:1983](#)

Investigation of brazeability using a varying gap test piece

[ISO 9453:2006](#)

Soft solder alloys -- Chemical compositions and forms

[ISO 9454-1:1990](#)

Soft soldering fluxes -- Classification and requirements -- Part 1: Classification, labelling and packaging

[ISO 9454-2:1998](#)

Soft soldering fluxes -- Classification and requirements -- Part 2: Performance requirements

[ISO 9455-1:1990](#)

Soft soldering fluxes -- Test methods -- Part 1: Determination of non-volatile matter, gravimetric method

[ISO 9455-2:1993](#)

Soft soldering fluxes -- Test methods -- Part 2: Determination of non-volatile matter, ebulliometric method

[ISO 9455-3:1992](#)

Soft soldering fluxes -- Test methods -- Part 3: Determination of acid value, potentiometric and visual titration methods

[ISO 9455-5:1992](#)

Soft soldering fluxes -- Test methods -- Part 5: Copper mirror test

[ISO 9455-6:1995](#)

Soft soldering fluxes -- Test methods -- Part 6: Determination and detection of halide (excluding fluoride) content

[ISO 9455-8:1991](#)

Soft soldering fluxes -- Test methods -- Part 8: Determination of zinc content



STANDARDS FOR WELDING (ISO)

[ISO 9455-9:1993](#)

Soft soldering fluxes -- Test methods -- Part 9: Determination of ammonia content

[ISO 9455-10:1998](#)

Soft soldering fluxes -- Test methods -- Part 10: Flux efficacy tests, solder spread method

[ISO 9455-11:1991](#)

Soft soldering fluxes -- Test methods -- Part 11: Solubility of flux residues

[ISO 9455-12:1992](#)

Soft soldering fluxes -- Test methods -- Part 12: Steel tube corrosion test

[ISO 9455-13:1996](#)

Soft soldering fluxes -- Test methods -- Part 13: Determination of flux spattering

[ISO 9455-14:1991](#)

Soft soldering fluxes -- Test methods -- Part 14: Assessment of tackiness of flux residues

[ISO 9455-15:1996](#)

Soft soldering fluxes -- Test methods -- Part 15: Copper corrosion test

[ISO 9455-16:1998](#)

Soft soldering fluxes -- Test methods -- Part 16: Flux efficacy tests, wetting balance method

[ISO 9455-17:2002](#)

Soft soldering fluxes -- Test methods -- Part 17: Surface insulation resistance comb test and electrochemical migration test of flux residues

[ISO 12224-1:1997](#)

Solder wire, solid and flux cored -- Specification and test methods -- Part 1: Classification and performance requirements

[ISO 12224-2:1997](#)

Flux cored solder wire -- Specification and test methods -- Part 2: Determination of flux content

[ISO 12224-3:2003](#)

Solder wire, solid and flux cored -- Specifications and test methods -- Part 3: Wetting balance test method for flux cored solder wire efficacy