
Resistance welding — Overview of standards for resistance welding

*Soudage par résistance — Vue d'ensembles des normes de soudage
par résistance*

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 6, *Resistance welding and allied mechanical joining*.

Any feedback, question or request for official interpretation related to any aspect of this document should be directed to the Secretariat of ISO/TC 44/SC 6 via your national standards body. A complete listing of these bodies can be found at www.iso.org/members.html. Official interpretations, where they exist, are available from this page: <https://committee.iso.org/sites/tc44/home/interpretation.html>.

Resistance welding — Overview of standards for resistance welding

1 Scope

This document gives an overview of ISO documents for resistance welding. It covers the following processes:

- resistance spot welding;
- projection welding;
- seam welding;
- flash welding;
- upset (resistance butt) welding.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Overview of standards for resistance welding

[Table 1](#) shows an overview of standards for resistance welding.

Table 1 — Overview of standards for resistance welding

Standard topic	Resistance welding				Upset (resistance butt) welding
	Resistance spot welding	Projection welding	Seam welding	Flash welding	
Quality management	ISO 9000 series	ISO 9000 series	ISO 9000 series	ISO 9000 series	ISO 9000 series
Vocabulary for quality management	ISO 9000	ISO 9000	ISO 9000	ISO 9000	ISO 9000
Welding symbols/Graphical symbols	ISO 2553	ISO 2553	ISO 2553	ISO 2553	ISO 2553
Quality requirements for welding/joining	ISO 7000/IEC 60417	ISO 7000/IEC 60417	ISO 7000/IEC 60417	ISO 7000/IEC 60417	ISO 7000/IEC 60417
	ISO 14554-1	ISO 14554-1	ISO 14554-1	ISO 14554-1	ISO 14554-1
	ISO 14554-2	ISO 14554-2	ISO 14554-2	ISO 14554-2	ISO 14554-2
Specification and qualification standards					
General rule					
Joining procedure specification	ISO 15609-5	ISO 15609-5	ISO 15609-5	ISO 15609-5	ISO 15609-5
Qualification based on consumable, experience, standard welding procedure, and pre-production testing	N/A	N/A	N/A	N/A	N/A
Joining procedure test	ISO 15614-12	ISO 15614-12	ISO 15614-12	ISO 15614-13	ISO 15614-13
Joining procedures (guideline)	ISO 14373	ISO 8167	ISO 16433		
	ISO 18594	ISO 16432			
	ISO 18595				
Testing procedures and test specimens	ISO 10447	ISO 10447	ISO 14270	ISO 14270	
	ISO 14270	ISO 14270	ISO 14271	ISO 14271	
	ISO 14271	ISO 14271	ISO 14273	ISO 14273	
	ISO 14272	ISO 14272	ISO 14329	ISO 14329	
	ISO 14273	ISO 14273	ISO 17654	ISO 17654	
	ISO 14323	ISO 14323			
	ISO 14324				
	ISO 14329				
	ISO 17653				
	ISO 18592				