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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 45788.1-2025

**Quality requirements for resistance welding of metallic - Part 1:
Comprehensive quality requirements**

金属材料电阻焊质量要求 第1部分：完整质量要求

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

This document is Part 1 of GB/T 45788 "Quality Requirements for Resistance Welding of Metallic Materials". GB/T 45788 has been published as follows.

Lower part.

-Part 1: Complete quality requirements;

-Part 2: Basic quality requirements.

This document is modified to adopt ISO 14554-1:2013 "Welding quality requirements - Resistance welding of metallic materials - Part 1: General quality requirements" beg".

The technical differences between this document and ISO 14554-1:2013 and their reasons are as follows.

The normative reference GB/T 12467.1 replaced ISO 3834-1 to adapt to my country's actual technical situation and increase operability.

(See Chapter 3);

The requirements for welding coordinators have been deleted to adapt to my country's

actual technical situation;

The requirements for electrode identification have been deleted to facilitate domestic practical application.

The following editorial changes were made to this document.

To coordinate with the existing standards, the name of the standard is changed to "Quality Requirements for Resistance Welding of Metallic Materials Part 1: Complete Quality Requirements"; -Change the title of 6.4 to welding responsible person; -the explanatory statements on welding responsible personnel and welding procedure approval were deleted in Appendix A; -Removed references. -

Introduction

GB/T 45788 "Quality Requirements for Resistance Welding of Metal Materials" specifically stipulates in detail the quality requirements for resistance welding of metal materials.

It covers all aspects of resistance welding, from contract and design review, subcontract services, welding personnel, inspection and testing personnel, welding equipment,, welding and related activities, to welding electrodes and accessories, parent metal storage, heat treatment, inspection and testing, non-conformities and corrective actions, equipment Equipment calibration, identification, quality records, etc. are all comprehensively and systematically regulated.

GB/T 45788 also provides guidance for manufacturers to establish a complete welding quality management system. By following these standards, manufacturers Manufacturers can ensure that the resistance welding components they produce comply with technical regulations and customer requirements, thereby improving the market competitiveness of their products and customer satisfaction.

At the same time, this series of standards can also serve as an important basis for examining suppliers' welding capabilities and quality control levels.

GB/T 45788 is divided into two parts.

Part 1: Complete quality requirements. The purpose is to specify the complete quality requirements and Record.

Part 2: Basic quality requirements. The purpose is to standardize the basic quality requirements and Record.

Quality requirements for resistance welding of metal materials Part 1: Complete quality requirements

1 Scope

This document specifies the complete quality requirements for resistance welding of metallic materials, including contract and technical review, subcontracting, personnel, equipment, welding and related activities, welding electrodes and accessories, base metal storage, heat treatment, welding related tests and inspections, non-conformities and corrective actions, equipment calibration, identification and quality reporting, etc.

This document applies to the complete quality requirements of welding in metal material workshops and on-site. Appendix A gives the complete quality requirements of resistance welding of metal materials.

Comparison table of quantity requirements and basic quality requirements.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies.

in this document.

GB/T 12467.1 Quality requirements for fusion welding of metallic materials Part 1: Selection criteria for corresponding grades of quality requirements (GB/T 12467.1-2009, ISO 3834-1:2005, IDT)

3 Terms and definitions

The terms and definitions defined in GB/T 12467.1 apply to this document.

4.1 General

To ensure that the information required for production operations is complete and feasible before work begins, the manufacturer shall confirm that it has all the capabilities required in the welding contract and that Ensure that all quality control points are adequately planned.

The manufacturer reviews the contract to confirm.

It has the capability to meet all requirements;-the relevant documents are clear, accurate and undisputed;-Have sufficient resources to ensure timely delivery. -the manufacturer should ensure that any differences between the contract and the previous quotation are