INTERNATIONAL STANDARD

ISO 17657-4

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Resistance welding — Welding current measurement for resistance welding —

Part 4:

Calibration system

Soudage par résistance — Mesurage des courants en soudage par résistance —

Partie 4: Système d'étalonnage



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Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 17657-4 was prepared by Technical Committee ISO/TC 44, Welding and allied processes, Subcommittee SC 6, Resistance welding.

rg coil ocherated by Files the general title Resistance welding - Welding current ISO 17657 consists of the following parts, under measurement for resistance welding:

- Part 1: Guidelines for measurement
- Part 2: Welding current meter with current sensing coil
- Part 3: Current sensing coil
- Part 4: Calibration system
- Part 5: Verification of welding current measuring system

Introduction

Requests for official interpretations of any aspect of this part of ISO 17657 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 http://www.iso.org.

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Resistance welding — Welding current measurement for resistance welding —

Part 4:

Calibration system

1 Scope

This part of ISO 17657 specifies calibration systems and calibration procedures for welding current measuring systems, current sensors, welding current meters and monitoring devices with current sensor used for measuring welding current in resistance welding with alternating current of 50 Hz or 60 Hz, or with direct current.

The procedures are applicable for a current range between 0,5 kA and 25 kA.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 669, Resistance welding — Resistance welding equipment — Mechanical and electrical requirements

ISO 17657-2, 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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 669 and the following apply.

3.1

test (current) sensor

current sensor to be calibrated

3.2

reference (current) sensor

current sensor calibrated in highly accurate condition, used for calibration of current sensors

3.3

test welding current meter

welding current meter to be calibrated