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

GB/T 9450-2025

Replacing GB/T 9450-2005

**Determination of the Case Hardening
Depth for Steel**

钢件渗碳淬火硬化层深度的测定

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Table of Contents

FOREWORD	2
1 SCOPE	4
2 NORMATIVE REFERENCES	4
3 TERMS AND DEFINITIONS	4
4 SYMBOLS AND ABBREVIATED TERMS	5
5 PRINCIPLE	5
6 TEST EQUIPMENT	5
7 SPECIMEN	5
8 TEST METHODS	7
9 EVALUATION OF RESULTS	8
10 TEST REPORT	9
BIBLIOGRAPHY	12

Foreword

This Document was drafted as per the rules specified in GB/T 1.1-2020 *Directives for Standardization – Part 1: Rules for the Structure and Drafting of Standardizing Documents*.

This Document replaced GB/T 9450-2005 *Steels - Determination and Verification of the Depth of Carburized and Hardened Cases*. Compared with GB/T 9450-2005, the major technical changes of this Document are as follows besides the structural adjustments and editorial modifications:

- a) Change the scope (see Clause 1 of this Edition; Clause 1 of the 2005 Edition);
- b) Change the provisions of the determination items (see Clause 4 of this Edition; Clause 4 of the 2005 Edition);
- c) Delete the general provisions for determination of hardened case depth and change the determination principle (see Clause 5 of this Edition; 5.1 and 5.2 of the 2005 Edition);
- d) Add provisions of test equipment (see Clause 6 of this Edition);
- e) Change the provisions of specimens (see Clause 7 of this Edition; 5.3.1 and 5.3.2 of the 2005 Edition);
- f) Change the test methods (see Clause 8 of this Edition; 5.3.3 of the 2005 edition);
- g) Change the provisions of result evaluation (see Clause 9 of this Edition; 5.4 of the 2005 Edition);
- h) Change the content of the test report (see Clause 10 of this Edition; Clause 7 of the 2005 Edition);
- i) Delete the clause of "verification" (see Clause 6 of the 2005 Edition).
- j) Add The interpolation method for case hardening depth (see Appendix A of this Edition).

Please note some contents of this Document may involve patents. The issuing agency of this Document shall not assume the responsibility to identify these patents.

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