

ICS 25.220.40;25.220.50
CCS A29



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

GB/T 4956-2025

Replacing GB/T 4956-2003

**Non-magnetic coatings on magnetic substrates - Measurement
of coating thickness - Magnetic method**

磁性基体上非磁性覆盖层 覆盖层厚度测量 磁性法

(English Translation)

Issued on: October 31, 2025

Implemented on: May 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Terms and definitions

Foreword

GB/T 4956-2025 is a recommended national standard (GB/T) of the People's Republic of China, issued on 31 October 2025 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 May 2026.

This edition replaces GB/T 4956-2003.

The document adopts an international standard (ISO or IEC).

It is under the responsibility of the China Machinery Industry Federation.

Classification: ICS 25.220.40;25.220.50; CCS A29.

1 Scope

Measuring the thickness of a coating on steel is routine in painting, plating and galvanizing operations. This standard describes a magnetic method for measuring the thickness of non-magnetic coatings on magnetic substrates, which covers many common coating systems on iron and steel parts. It is a recommended national standard.

Coating applicators, plating and galvanizing plants, fabricators, third party inspectors, metrology laboratories and gauge manufacturers are its natural readers. Purchasers who include coating thickness inspection in their contracts can also use it to define the measurement approach.

It was issued on 31 October 2025 and takes effect on 1 May 2026, replacing GB/T 4956-2003. Because the earlier edition is more than two decades old, shops that still follow it should review their gauge calibration and reporting practice against the current text.