

ICS 77.140.80
CCS J 31



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

GB/T 48047-2026

**Investment castings (steel, nickel alloys and cobalt alloys) -
General technical requirements**

熔模铸件（铸钢、镍合金和钴合金）通用技术要求
(English Translation)

Issued on: July 30, 2026

Implemented on: February 1, 2027

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

Table of Contents

Foreword

1 Scope

2 Normative references

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

This document adopts ISO 16468:2025 "Investment castings (cast steel, nickel alloys and cobalt alloys) - General technical requirements".

1 Scope

This document specifies the technical requirements for cast steel parts, nickel alloy castings, and cobalt alloy castings produced using investment casting technology.

Note: International standards for metallurgical materials such as cast steel, nickel alloys, and cobalt alloys can be found in the references.

This document specifies the technical requirements for investment castings made of different materials. In case of conflict, the technical requirements in this document take precedence over those cited in the reference document. Accuracy is the priority.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

ISO 4986 Magnetic particle testing of steel and iron castings

Note: GB/T 9444-2019 Magnetic particle testing of cast steel and cast iron parts (ISO 4986:2010, MOD)

ISO 4987 Steel and iron castings - Liquid penetrant testing

Note: GB/T 9443-2019 Penetrant testing of cast steel and cast iron parts (ISO 4987:2010, MOD)

ISO 4990 General technical delivery requirements for steel castings.

Note: GB/T 40805-2021 General technical conditions for delivery and acceptance of cast steel parts (ISO 4990:2015, MOD)

ISO 4992-1 Ultrasonic testing of steel castings - Part 1: General purpose steel castings Part 1: Steel castings for general purposes)

Note: GB/T 7233.1-2023 Ultrasonic testing of cast steel parts - Part 1: General purpose cast steel parts (ISO 4992-1:2020, MOD)

ISO 4992-2 Ultrasonic testing of steel castings - Part 2: High-pressure steel castings Part 2: Steel castings for highly stressed components)

Note: GB/T 7233.2-2023 Ultrasonic testing of cast steel parts - Part 2: High pressure cast steel parts (ISO 4992-2:2020, MOD)

ISO 4993 Radiographic testing of steel and iron castings

Note: GB/T 5677-2018 Radiographic inspection of castings (ISO 4993:2015, MOD)

ISO 6506-1 Metallic materials - Brinell hardness test - Part 1: Test methods test-Part 1: Test method)

Note: GB/T 231.1-2018 Metallic materials - Brinell hardness test - Part 1: Test method (ISO 6506-1:2014, MOD)

ISO 6507-1 Metallic materials - Vickers hardness test - Part 1: Test methods test-Part 1: Test method)

Note: GB/T 4340.1-2024 Metallic materials - Vickers hardness test - Part 1: Test method (ISO 6507-1:2023, MOD)

ISO 6508-1 Metallic materials - Rockwell hardness test - Part 1: Test methods ness test-Part 1: Test method)

Note: GB/T 230.1-2018 Metallic materials - Rockwell hardness test - Part 1: Test method (ISO 6508-1:2016, MOD)

ISO 10474 Types of inspection documents for steel and steel products