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

GB 26488-2025

Replacing GB 26488-2011

Safety specification for magnesium alloy die casting

镁合金压铸安全生产规范

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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. This document replaces GB 26488-2011 "Safety Production Code for Magnesium Alloy Die Casting". Compared with GB 26488-2011, except for the structural adjustment and In addition to editorial changes, the main technical changes are as follows:

--- Changed the scope of application and added the application of semi-solid die casting

(see Chapter 1, Chapter 1 of the.2011 edition);

--- Added terms and definitions such as injection chamber and punch (see Chapter 3);

--- Added safety requirements for the application of new processes, new technologies, new equipment, new materials, etc., safety requirements for major hazardous sources, and dangerous operations Safety requirements (see 4.4, 4.6, 4.10);

--- Changed the safety requirements for molten metal working areas (see 5.4, 5.6, 5.7, 3.4, 5.3 of the.2011 edition);

--- Added safety requirements for protective earthing (or grounding) of electrical equipment (see 6.1.12);

--- Increased safety requirements for the liquid level in the crucible (see 6.2.4);

--- Changed the safety requirements for combustion devices using natural gas (see 6.2.5, 7.6 of the.2011 edition);

---Changed the requirements for safety devices such as flow difference monitoring and alarm device, oil overheat protection device, and interlock control of water-cooled injection rod (See 6.3.3, 6.3.4, 6.3.5, and

6.1.4 of the.2011 edition);

--- Added safety requirements for semi-solid magnesium alloy injection molding machines (see 6.2.9, 6.3.7, 6.3.8);

1 Scope

GB 26488-2025 is the Chinese national standard on safety specification for magnesium alloy die casting, in the field of metallurgy. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 1 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 February 2026. Classification: ICS 77.120.20, CCS H61. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the safety management, plant layout, and safety technical requirements for buildings (structures), equipment, and operations of magnesium alloy die casting production. The verification method is described. This document applies to the safety management of production links such as magnesium alloy high-pressure casting and semi-solid die casting.

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 to This document.

GB 15577 Safety regulations for dust explosion prevention

GB 18218 Identification of Major Hazard Sources of Hazardous Chemicals

GB 39800.1 Specification for personal protective equipment Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Shotsleeve A cylindrical container that holds the molten metal to be injected and applies pressure to it.

3.2 plunger A plunger used to inject molten metal from the injection chamber into the mold cavity and to withstand the pressure generated by the metal during the solidification process.

3.3 die casting unit diecasting unit A complete set of automated production equipment consisting of a die-casting machine and auxiliary equipment.