
**Magnesium and magnesium alloys —
Unalloyed magnesium — Chemical
composition**

*Magnésium et alliages de magnésium — Magnésium non allié —
Composition chimique*



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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 8287 was prepared by Technical Committee ISO/TC 79, *Light metals and their alloys*, Subcommittee SC 5, *Magnesium and alloys of cast or wrought magnesium*.

This third edition cancels and replaces the second edition (ISO 8287:2000), which has been technically revised.

Introduction

This International Standard classifies commercially available cast unalloyed magnesium into a number of grades suitable for the applications for which they might be used. The grades listed in this International Standard are identical to those in EN 12421:1998.

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Magnesium and magnesium alloys — Unalloyed magnesium — Chemical composition

1 Scope

This International Standard specifies the chemical composition of cast unalloyed magnesium. It specifies classification, designation, testing rules, marking, packing, transportation, storage, and information contained in the contract.

This International Standard is for cast unalloyed magnesium produced by the silicon-thermo process or molten salt electrolysis process.

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 80000-1:2009, *Quantities and units — Part 1: General*

EN 12421:1998, *Magnesium and magnesium alloys — Unalloyed magnesium*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

unalloyed magnesium

magnesium with a minimum purity of 99,0 % by mass

3.2

cast unalloyed magnesium

unalloyed magnesium cast in a variety of shapes

4 Information to be supplied by the purchaser

The enquiry and order shall define the product required and shall contain the following information:

- a) material designation;
- b) product shape;
- c) quantity (for example number, mass, etc.);
- d) any requirements for declarations of conformity;
- e) any additional requirements agreed between the manufacturer and the purchaser.

5 Designation

The material shall be designated by the appropriate symbols given in Table 1.