
International Standard



301

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Zinc alloy ingots intended for casting

Alliages de zinc en lingots destinés à la fonderie

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[ISO 301:1981](#)

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Price based on 1 page

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 301 was developed by Technical Committee ISO/TC 18, *Zinc and zinc alloys*, and was circulated in November 1979.

It has been approved by the member bodies of the following countries :

Belgium
Brazil
Bulgaria
Canada
China
Czechoslovakia
France

Germany, F.R.
India
Italy
Korea, Rep. of
Netherlands
Norway
Poland

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Portugal

Romania

South Africa, Rep. of

Spain

USSR

Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Australia
United Kingdom

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1 Scope and field of application

Ingots shall be of a shape which permits stacking.

This International Standard specifies the designations and chemical compositions of zinc alloy ingots intended for casting. Ingots may include notches which allow them to be broken up if necessary into small pieces.

2 Specifications

Specifications are given in the table.

Certain ingots may include cast-on feet, with a view to facilitating the handling of the stacks of ingots.

3 Characteristics

Ingots shall generally have a mass of 5 to 20 kg.

4 Marking

All ingots shall have the producer's mark cast-on and an identification mark for the alloy cast-on or stamped.

Table

Designation	Utilization	Alloying elements % (m/m)			Maximum impurities % (m/m)					
		Al	Cu	Mg	Fe	Pb	Cd	Cu	Sn	Tl + In
Zn Al 4	Pressure die casting	3,9 to 4,3	—	0,03 to 0,06	0,03	0,003	0,003	0,03	0,001	0,001 5
Zn Al 4 Cu 1	Pressure die casting	3,9 to 4,3	0,50 to 1,25	0,03 to 0,06	0,03	0,003	0,003	—	0,001	0,001 5
Zn Al 4 Cu 3	Permanent mould casting	3,9 to 4,3	2,50 to 3,50	0,03 to 0,06	0,05	0,003	0,003	—	0,001	0,001 5
Zn Al 11 Cu 1	Permanent mould casting	10,5 to 11,5	0,50 to 1,25	0,015 to 0,03	0,075	0,004	0,003	—	0,002	0,001 5



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AMENDMENT SLIP

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MODIFICATION TO FOREWORD (*Inside front cover*)

The following sentence is to be added at the end of the foreword :

“This International Standard cancels and replaces ISO Recommendation R 301-1963, of which it constitutes a technical revision.”

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