International Standard 114

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

99.8 Unalloyed magnesium ingots — Chemical composition

Lingots en magnésium non allié 99,8 — Composition chimique

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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 114 was developed by Technical Committee ISO/TC 79, *Light metals and their alloys.*

It was submitted directly to the ISO Council, in accordance with clause 5.10.1 of part 1 of the Directives for the technical work of ISO. It cancels and replaces ISO Recommendation R 114-1959, which had been approved by the member bodies of the following countries :

Austria	Italy	Spain
Belgium	Japan	Sweden
Canada	Netherlands	Switzerland
Chile	New Zealand	United Kingdom
Czechoslovakia	Norway	USA
France	Poland	USSR
Germany, F.R.	Portugal	
Hungary	Romania	

No member body had expressed disapproval of the document.

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1 Scope and field of application

This International Standard specifies requirements for the chemical composition of 99.8 unalloyed magnesium ingots for general purposes.

Special applications may require stricter limitation of certain specified or unspecified elements.

2 Designation and definition

2.1 Conventional designation

The conventional designation [see 2.2 b)] is 99.8.

2.2 Definition

Unalloyed magnesium is defined by :

a) the maximum contents of the following specified elements : aluminium, manganese, silicon, copper, iron, nickel;

b) the total maximum content of the above elements (the difference between this total and 100 is the conventional designation of the unalloyed magnesium);

c) the maximum content of any other elements which may be present in the magnesium.

3 Chemical composition

The maximum permissible impurities are specified in the following table.

Maximum permissible impurities, % (*m*/*m*)							
Al	**Mn**	**Si**	**Cu**	**Fe**	**Ni**	**Total** : Al + Mn + Si + Cu + Fe + Ni	**Any other element**
0,05	0,1	0,05	0,02	0,05	0,002	0,20	0,05