

ISO

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Edition*

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

**ISO RECOMMENDATION
R 121**

**COMPOSITION OF
MAGNESIUM-ALUMINIUM-ZINC ALLOY CASTINGS**

1st EDITION
August 1959

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BRIEF HISTORY

The ISO Recommendation R 121, *Composition of Magnesium-Aluminium-Zinc Alloy Castings*, was drawn up by Technical Committee ISO/TC 79, *Light Metals and their Alloys*, the Secretariat of which is held by the Association Française de Normalisation (AFNOR).

A first draft proposal, developed by Working Group No. 3, *Magnesium and its Alloys*, was discussed in detail by the Technical Committee during its second meeting, held in Paris, in October 1956.

Following the decisions reached at that meeting, the ISO/TC 79 Secretariat drew up a second draft proposal, which was submitted to the members of the Technical Committee, in February 1957, and which was adopted, by correspondence, as a Draft ISO Recommendation.

On 13 December 1957, the Draft ISO Recommendation (No. 196) was distributed to all the ISO Member Bodies and was approved by the following Member Bodies:

Austria	Germany	Poland
Belgium	Hungary	Portugal
Burma	Italy	Romania
Canada	Japan	Spain
Chile	Netherlands	Sweden
Czechoslovakia	New Zealand	Switzerland
France	Norway	United Kingdom
		U.S.S.R.

One Member Body opposed the approval of the Draft: U.S.A.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in August 1959, to accept it as an ISO RECOMMENDATION.

**COMPOSITION OF
MAGNESIUM-ALUMINIUM-ZINC ALLOY CASTINGS**

CHEMICAL COMPOSITION (per cent)

Alloy	No. 1	No. 2	No. 3	No. 4	No. 5
Al	7.5 — 9.0	8.3 — 10.3	8.0 — 10.0	5.0 — 7.0	7.0 — 9.5
Zn	0.2 — 1.0	0.2 — 1.0	1.5 — 2.5	2.0 — 3.5	0.3 — 2.0
Mn	0.15 — 0.6	0.15 — 0.6	0.10 — 0.5	0.1 — 0.5	0.15 min.
Si max.	0.3	0.3	0.3	0.3	0.5
Fe max.	0.05	0.05	0.05	0.05	0.05
Cu max.	0.2	0.2	0.2	0.2	0.35
Ni max.	0.01	0.01	0.01	0.01	0.02