

केन्द्रीय मुहर विभाग -2

संदर्भ -: के.मू.वि. -2/16:713

17.04.2026

विषय: संशोधित IS 713:2026 के अनुपालन हेतु दिशा निर्देश ।

यह उपरोक्त विषय के संदर्भ में है।

सक्षम अधिकारी द्वारा अनुमोदित दिशानिर्देश अनुपालन हेतु संलग्न है।

सभी क्षेत्रीय/शाखा कार्यालयों से अनुरोध है की दिशानिर्देशों का तत्काल प्रभाव से अनुपालन सुनिश्चित करें।

**रंजीत कुमार
वैज्ञानिक 'ई'**

प्रमुख (के.मू.वि.- 2)

सभी क्षेत्रीय/शाखा कार्यालय/प्रयोगशालाएँ/MTD/LRMD

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/16:713

17.04.2026

Subject: Guidelines for implementation of Revised IS 713:2026.

This has reference to the subject mentioned above.

The Competent Authority has approved the enclosed Guidelines for implementation.

All ROs/BOs are requested to ensure the implementation of the above Guidelines with immediate effect.

**(Ranjit Kumar)
Scientist 'E'**

Head (CMD-2)

All ROs/BOs/Labs/MTD/LRMD

CENTRAL MARKS DEPARTMENT-2

Our Ref:CMD-2/16:713

Date: 17.04.2026

Subject: Guidelines for implementation of Revised IS 713:2026 (Zinc-Aluminium Alloy Ingots Intended for Foundry and Die Castings).

1. IS 713:1981 has been revised and published as IS 713:2026. The last date for implementation of the revised Standard is 5th July 2026 after which the old Standard shall stand withdrawn.
2. All BOs shall inform the Applicants and Licensees under their jurisdiction about implementation of the revised Standard within a week of issuance of these guidelines.
3. The significant changes in the revised Standard as listed in the Table below are given for the purpose of general guidance. BOs shall ensure that the product conforms to all the requirements, as applicable, as per the revised Standard.

Clause (s) /Table (s) as per IS 713:2026	Change
Title	Title of the standard has been modified from “Zinc Base Alloy Ingots for Die Casting” to “Zinc- Aluminium Alloy Ingots Intended for Foundry and Die Castings”
1 Scope	The scope of the standard has been expanded to include alloys intended for foundry castings and thin-wall die castings, in addition to the existing applications for die castings.
3 Terminology	A new Clause 3 on Terminology has been introduced, specifying the various terms and definitions used in the standard.
4 System of Designation of Zinc Alloys	A new clause 4 has been introduced specifying the designation system of alloys identical with ISO 301 (Except the fifth digit of the designation to demarcate difference between alloys of same nominal composition). Based on these designation system, Zinc Alloy conforming to this standard are designated either by a symbol or by an alloy number. For marking and labelling purposes only, the short designation and/or colour code may be used.
5 Manufacture	Earlier it was specified that the alloys shall be manufactured from the virgin metals. Grade Zn 99.99 of IS : 209-1979 shall be used for the manufacture of these alloys. No zinc scrap and secondary zinc alloy shall be used.

	In the revised standard the 'Manufacture' clause has been modified and now specified that Zinc ingots or liquid zinc conforming to grade Zn99.995 or Zn99.99 of IS 209 with the addition of appropriate alloying elements or using master alloys (as specified in Annex D of IS 713:2026) of Zn-Al.
7 Chemical Composition	In the earlier version of the standard, only two grades were specified. In the revised version, seven additional grades have been introduced, bringing the total to nine grades. Further, the chemical composition of the existing two grades (i.e., ZnAl4 and ZnAl4Cu1) has also been slightly modified including the removal of Indium and Thallium requirements.
6 Supply of Material 8 Shape, Size and Mass of Ingots	The clause 6 (Supply of Material) has been modified and new clause 8 (Shape, Size and Mass of Ingots) has been introduced to specify that Zn Alloy ingots are typically supplied in the form of ingot bundles and also be supplied in different shapes and masses like jumbos or blocks or any other shape at the discretion of the supplier unless a specific shape/size/mass is agreed between the purchaser and the supplier at the time of ordering.
10 Marking and Labelling	Earlier, it was specified that Each Ingot shall be legibly marked with (a) Cast Number, (b) Grade of the material and; (c) manufacturer's initials or trade-mark. Now due to introduction of new supply shape as specified in Clause 8 and colour coding, the Marking and Labeling requirement has been modified as under: For Ingot: Each ingot shall be marked with the name or identification of manufacturer, grade designation by alloy symbol and/or short designation. Additionally, each ingot may be marked with heat/batch/lot or cast number, the zinc alloy designation by alloy

	<p>number, and/or colour code, and/or short designation as agreed between the manufacturer and the purchaser.</p> <p>For Bundle and Jumbo:</p> <p>Each bundle of ingots, each bundle of small jumbos and each individually supplied jumbo shall be marked, or labelled, with the following minimum information:</p> <p>a) name or identification of manufacturer;</p> <p>b) the heat/batch/lot or cast number;</p> <p>c) the zinc alloy designation, by alloy symbol, and/or alloy number, and/or colour code, and/or short designation;</p> <p>d) total net mass of the bundle and mass of each ingot, or the mass of each individual jumbo as applicable.</p>
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4. Since revision of Indian Standard introduces slightly modification in chemical composition of existing grades, the existing licensee(s) of such grades is(are) required to submit evidence of conformity to modified requirements through In-house/Independent Test Reports. Further, the revision also introduces additional grades, the inclusion of these grades in the scope of the existing licence shall be processed in accordance with the CSOL guidelines.

5. Consequent upon the issuance of the revised Standard, the existing product manual of IS 713 has been revised which is being circulated separately.

6. BOs are requested to circulate these guidelines to licensees and applicants under their jurisdiction immediately after issuance of this circular.

7. The above guidelines shall come into force with immediate effect.

Ranjit Kumar
Scientist-E

Head (CMD-2)

DDG (Certification)

ROs/BOs