



# SLOVENSKI STANDARD

## SIST EN 1179:1998

01-april-1998

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### Cink in cinkove zlitine - Primarni cink

Zinc and zinc alloys - Primary zinc

Zink und Zinklegierungen - Primärzink

Zinc et alliages de zinc - Zinc primaire

Ta slovenski standard je istoveten z: **EN 1179:1995**

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#### **ICS:**

77.120.60	Svinec, cink, kositer in njihove zlitine	Lead, zinc, tin and their alloys
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EUROPEAN STANDARD

EN 1179

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1995

ICS 77.120; 77.120.60

Descriptors: zinc, zinc alloys, designation, chemical composition, specifications, marking, acceptance, documents

English version

## Zinc and zinc alloys - Primary zinc

Zinc et alliages de zinc -- Zinc primaire Zink und Zinklegierungen - Primärzink

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CEN**European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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**Foreword**

This European Standard has been prepared by the Technical Committee CEN/TC 209 "Zinc and zinc alloys" of which the secretariat is held by AFNOR.

Within its programme of work, Technical Committee CEN/TC209 requested CEN/TC 209/SC2 'Primary zinc' to prepare the following standard:

prEN 1179 Zinc and zinc alloys - Primary zinc.

In the course of its plenary meeting on 27 May 1994, CEN/TC209 'Zinc and zinc alloys' agreed by Resolution No 12, see document CEN/TC209 N 88, to submit this draft for formal vote.

This is one of a series of European Standards for zinc and zinc alloy products. Other products are specified as follows:

- prEN 1774 Zinc and zinc alloys - Alloys for foundry purposes - Ingot and liquid
- prEN ----\*) Zinc and zinc alloys - Alloys for foundry purposes - Castings
- prEN 988 Zinc and zinc alloys - Rolled flat products for building

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This European Standard shall be given the status of a National Standard, either by publication of an identical text or by endorsement, at the latest by February 1996, and conflicting national standards shall be withdrawn at the latest by February 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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\*) In course of preparation.

## 1 Scope

This European Standard specifies the classifications, chemical compositions, marking and other requirements for primary zinc. The grades of zinc included in the standard are those which are traded internationally. The standard does not include requirements for secondary zinc produced by remelting.

## 2 Definitions

For the purposes of this standard, the following definitions apply:

2.1 **ingot**: Cast product intended for remelting.

2.2 **primary zinc**: Zinc obtained from the ore, or other zinc-bearing material, by a process of distillation or by chemical or electrolytic reduction.

NOTE: Primary zinc is normally supplied in ingot form, but may also be available in liquid form.

### 2.3 cast

2.3.1 **cast, for non-continuous casting**: Product of one furnace, or crucible melt.

2.3.2 **cast, for continuous casting**: Identified volume of liquid metal.

2.4 **batch**: Number of ingots taken from a single cast.

**2.5 bundle:** Collection of ingots taken from a single cast and secured, for example by banding, for the purposes of handling, shipment and storage.

**2.6 jumbo:** Large ingot not suitable for manual handling, weighing at least 30 kg. Normally a jumbo weighs several hundred kilos.

### 3 Manufacture

Zinc ingots shall be manufactured by casting from liquid primary zinc.

### 4 Ordering information

The following information shall be supplied by the purchaser in the enquiry and/or order, to assist the supplier in providing the correct material.

- a) the number of this European Standard;
- b) the grade classification of the primary zinc required (see table 1);
- c) the total mass required;
- d) for ingots, their individual nominal mass;
- e) whether a specific ingot shape is required (see 5.2);
- f) whether a certificate of analysis or a declaration of conformity is required (see 8).

### 5 Requirements

#### 5.1 Chemical composition

The primary zinc shall comply with the chemical composition given for the appropriate grade in table 1.

In expressing the results for the analysis, the values obtained shall be rounded to the same number of decimal places as used in expressing the specified limit in table 1.

The following rules shall be used for rounding:

- a) if the figure immediately after the last figure to be retained is less than 5, the last figure to be retained shall be kept unchanged;
- b) if the figure immediately after the last figure to be retained is equal to or greater than 5, the last figure to be retained shall be increased by one unit.

## 5.2 Shape of ingots

The shape of ingots shall be at the discretion of the supplier, unless a specific shape requirement is agreed between the purchaser and the supplier and stated in the enquiry and/or order [see 4 e)].

## 5.3 Surface condition of ingots

The surface condition of the ingots shall be such that it does not affect the chemical composition requirements, and is not detrimental to the end use of the ingots.

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## 6 Sampling

In cases of dispute, the method for the sampling of primary zinc for verification of its conformity to the chemical composition requirements of this standard shall be subject to agreement between the disputing parties.

NOTE: A European Standard for sampling, entitled "Zinc and zinc alloys - Method of sampling" is in course of preparation.

## 7 Marking and labelling

All ingots or bundles of ingots shall be marked, or labelled, with the following minimum information:

- a) the producer's mark;
- b) the zinc grade (by grade classification or by colour code - see table 1);
- c) the batch or cast reference; and
- d) the mass of the ingot, or bundle.



## 8 Inspection documents

If requested by the purchaser at the time of ordering, the supplier shall furnish inspection documents with each consignment. The documentation shall be as chosen by the purchaser [see 4 f)] and shall be in accordance with either a) or b) as follows:

a) a certificate of analysis, giving the results obtained on the specific casts in the consignment;

b) a declaration of conformity of the consignment with the order requirements. This declaration shall include the following information:

- 1) name and address of supplier;
- 2) date of declaration of conformity;
- 3) name and address of purchaser;
- 4) purchaser's order number;
- 5) a description of the goods and the quantity supplied;
- 6) identification of this standard and the grade classification supplied;
- 7) the following declaration:

"The goods detailed hereon have been manufactured to conform to the requirements of the purchaser's order and specification detailed thereon."

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(Supplier's authorized representative)