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ZINC AND ZINC ALLOYS - SECONDARY ZINC

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English version

Zinc and zinc alloys - Secondary zinc

Zinc et alliages de zinc - Zinc secondaire

Zink und Zinklegierungen - Sekundärzink

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Foreword

This document (EN 13283:2002) has been prepared by Technical Committee CEN/TC 209 "Zinc and zinc alloys", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by April 2003, and conflicting national standards shall be withdrawn at the latest by April 2003.

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

Introduction

This standard was prepared to provide galvanizing plants and other users of zinc with standardized zinc qualities which are not manufactured according to the primary zinc process. The chemical composition of these grades is specifically oriented by these requirements for use and takes account of the possibilities resulting from the increasing amount of secondary zinc materials for controlled recycling, to preserve natural resources.

1 Scope

This European Standard specifies designations, chemical compositions, marking and other requirements for secondary zinc. These grades are mainly used for hot dip-galvanizing purposes according to EN ISO 1461 and for the production of brass.

Secondary zinc can be produced by different processes which are distinguished by the material source. The main part is recycled from used zinc material and scrap, such as zinc sheet; also secondary zinc can be produced from zinc process residues, such as zinc ashes.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 12060, *Zinc and zinc alloys — Method of sampling — Specifications.*

3 Terms and definitions

For the purposes of this European standard, the following terms and definitions apply:

3.1

ingot (bar)

cast product intended for remelting

3.2

jumbo

large ingot weighing at least 30 kg. Normally, a jumbo weighs several hundred kilograms

3.3

bundle (pack)

combination of ingots from one batch (see 3.6) packed for the purposes of handling, shipment and storage, for example by banding

3.4

secondary zinc

zinc produced by controlled remelting of secondary materials containing metallic zinc

3.5

cast

product of one furnace or crucible melt

3.6

batch

number of ingots taken from one single cast

4 Manufacture

Ingots (bars) or jumbos shall be manufactured by casting liquid secondary zinc in moulds.

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