

**Dentistry - Gypsum products (ISO 6873:2013)**

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ICS 11.060.10

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English Version

## Dentistry - Gypsum products (ISO 6873:2013)

Médecine bucco-dentaire - Produits à base de gypse (ISO 6873:2013)

Zahnheilkunde - Gipse (ISO 6873:2013)

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## Foreword

This document (EN ISO 6873:2013) has been prepared by Technical Committee ISO/TC 106 "Dentistry" in collaboration with Technical Committee CEN/TC 55 "Dentistry" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by October 2013, and conflicting national standards shall be withdrawn at the latest by October 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 6873:2000.

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### Endorsement notice

The text of ISO 6873:2013 has been approved by CEN as EN ISO 6873:2013 without any modification.

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## Introduction

This revision was necessary because gypsum products have been marketed since the last edition of ISO 6873 was published, which have properties (required for newly introduced dental technology) for which the requirements set in that edition were not appropriate. In this edition the classification has been altered to take this into account and in so doing, requirements have been set appropriately. In addition there was concern that Type 4 dental stone used for CAD/CAM models should not produce significant setting expansion at times beyond the 2 h period at which setting expansion was measured and a requirement had been set. In this edition the setting expansion for Type 4 dental stone is measured at 24 h as well.

# Dentistry — Gypsum products

## 1 Scope

This International Standard gives a classification of, and specifies requirements for, gypsum products used for dental purposes such as making oral impressions, moulds, casts, dies or model bases, and mounting models. It specifies the test methods to be employed to determine compliance with these requirements. It also includes requirements for the labelling of packaging and for adequate instructions to accompany each package.

This International Standard does not apply to dental bone graft substitutes composed of calcium sulfate hemihydrate (or gypsum).

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1302, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*

ISO 1942, *Dentistry — Vocabulary*

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

ISO 15223-1, *Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1942 and the following apply.

### 3.1

#### **gypsum product**

dental product composed essentially of a hemihydrate of calcium sulfate and any necessary modifiers

Note 1 to entry: Colouring matter and flavouring, if present, are regarded as necessary modifiers.

## 4 Classification

The five types of gypsum product used in dentistry are classified in accordance with this International Standard as follows:

- a) **Type 1:** Dental plaster for impressions;
- b) **Type 2:** Dental plaster for mounting (Class 1) and for models (Class 2);
- c) **Type 3:** Dental stone for models;
- d) **Type 4:** Dental stone (high strength, low expansion) for dies, model bases and CAD/CAM dies;