
INTERNATIONAL STANDARD



1560

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Dental mercury

Mercure à usage dentaire

First edition — 1975-03-15

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UDC 616.314 : 546.49

Ref. No. ISO 1560-1975 (E)

Descriptors : dental materials, mercury (metal), specifications, materials specifications, packages, marking.

Price based on 1 page

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 106 has reviewed ISO Recommendation R 1560 and found it technically suitable for transformation. International Standard ISO 1560 therefore replaces ISO Recommendation R 1560-1970 to which it is technically identical.

ISO Recommendation R 1560 was approved by the Member Bodies of the following countries :

Australia	Greece	South Africa, Rep. of
Belgium	India	Spain
Brazil	Israel	Sweden
Canada	Korea, Rep. of	United Kingdom
Czechoslovakia	Netherlands	U.S.A.
Denmark	New Zealand	Yugoslavia
Egypt, Arab Rep. of	Peru	
France	Poland	

The Member Body of the following country expressed disapproval of the Recommendation on technical grounds :

Switzerland*

No Member Body disapproved the transformation of ISO/R 1560 into an International Standard.

* Subsequently, this Member Body approved the Recommendation.

Dental mercury

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the requirements for mercury used in the preparation of dental amalgam, together with the test methods to be employed to determine compliance with these requirements.

2 REQUIREMENTS

2.1 Surface

The mercury shall have a bright, mirror-like surface free from film or scum.

Under certain conditions of storage, mercury may develop a slight film. Such mercury shall be readily separated from this film by filtration through chamois skin or some similar filtration medium. When filtered, the mercury shall remain bright after agitation with air.

2.2 Pouring

The mercury shall pour freely and in entirety from a thoroughly clean glass container.

2.3 Residue

The mercury when tested in accordance with 4.2 shall not have a non-volatile residue of more than 0,02 % (*m/m*).

3 SAMPLING

The method of procurement and amount of mercury needed for testing shall be the subject of agreement between the interested parties.

4 TEST METHODS

4.1 Visual inspection

Use visual inspection to determine compliance with the requirements outlined in 2.1 and 2.2 and clause 5.

4.2 Determination of non-volatile residue

Determine non-volatile residue on samples having a mass of 10 to 15 g.

Evaporate the mercury from a porcelain crucible at a temperature below the boiling point of mercury, and then ignite the crucible at a dull red heat. Weigh the material remaining and express its mass as a percentage of the mass of the original specimen.

5 MARKING AND PACKAGING

5.1 Packaging

The mercury shall be packed in non-metallic containers of sufficient strength to hold the contents under normal conditions of transport and handling. The material from which the containers and their closures are made shall have no deleterious effects on mercury.

5.2 Marking

5.2.1 Lot numbers

Each container shall be marked with a serial number, or a combination of letters and numbers, which refer to the manufacturer's or processor's records for the particular lot or batch of mercury.

5.2.2 Date of manufacture

The date of final processing and/or cleaning before packing (year and month) shall be indicated on the container either as a separate item or as a part of the lot number.

5.2.3 Net mass

The minimum net mass of the contents shall be marked in grams or kilograms on each container.