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Third edition
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Horology — Water-resistant watches

Horlogerie — Montres étanches



Reference number
ISO 2281:1990(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 2281 was prepared by Technical Committee ISO/TC 114, *Horology*.

This third edition cancels and replaces the second edition (ISO 2281:1984), of which it constitutes a technical revision.

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Introduction

This third edition of ISO 2281 recognizes the technical development of the last years with regard to water-tightness of watches for general use.

It provides for only one definition of the term "water-resistant".

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Horology — Water-resistant watches

1 Scope

This International Standard specifies the requirements and test methods for watches designated as "water-resistant" and marked accordingly, with or without an additional indication of an overpressure. It does not apply to divers' watches, which are specified in ISO 6425¹⁾.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2859-1:1989, *Sampling procedures for inspection by attributes — Part 1: Sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection*.

3 Designation

Watches bearing the designation "water-resistant" with or without an additional indication of an overpressure are intended for ordinary daily use and are resistant to water during exercises such as swimming for a short period. They may be used under conditions where water pressure and temperature vary. However, whether they bear an additional indication of overpressure or not, they are not intended for submarine diving.

4 Requirements

Watches bearing the designation "water-resistant" shall comply with the requirements given in either 4.1 and 4.3, or in 4.2 and 4.3.

4.1 Resistance to air overpressure

The flow rate of air shall not exceed 50 µg/min.

Testing shall be carried out in accordance with 6.2.1.

4.2 Resistance to water overpressure

There shall be no condensation visible on the inside surface of the glass after conducting the condensation test given in 6.2.2 before and after the tests given in 6.2.3 to 6.2.6.

4.3 Resistance against temperature and mechanical stress

There shall be no condensation visible on the inside surface of the glass after conducting the condensation test given in 6.2.2 before and after the tests given in 6.2.3 to 6.2.5.

5 Sampling

This International Standard may be applied for piece-by-piece inspection or by sampling. In this case, sampling shall be carried out in accordance with ISO 2859-1.

The tests specified in 6.2.3, 6.2.4 and 6.2.5 are compulsory on at least one sample of the examined lot.

1) ISO 6425:1984, *Divers' watches*.