
International Standard



4168

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

Time measurement instruments — Conditions for carrying out checks on radioluminescent deposits

Instruments horaires — Conditions d'exécution des contrôles des dépôts radioluminescents

First edition — 1979-04-15

STANDARDSISO.COM : Click to view the full PDF of ISO 4168:1979

UDC 681.11 : 535.37

Ref. No. ISO 4168-1979 (E)

Descriptors : time measurement instruments, radioluminescent deposits, testing conditions, certification.

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.

International Standard ISO 4168 was developed by Technical Committee ISO/TC 114, *Horology*, and was circulated to the member bodies in April 1978.

It has been approved by the member bodies of the following countries :

Czechoslovakia	Italy	Switzerland
France	Japan	United Kingdom
Germany, F.R.	Korea, Rep. of	USSR
India	Mexico	
Ireland	South Africa, Rep. of	

No member body expressed disapproval of the document.

Time measurement instruments — Conditions for carrying out checks on radioluminescent deposits

1 SCOPE AND FIELD OF APPLICATION

This International Standard defines the conditions in which checks on radioluminescent deposits for time measurement instruments are to be carried out.

It supplements ISO 3157, in particular clause 5 of that document, "Specifications and test methods for radioluminescent deposits".

2 REFERENCES

ISO 2859, *Sampling procedures and tables for inspection by attributes*.

ISO 3157, *Radioluminescence for time measurement instruments — Specifications*.

3 CARRYING OUT CHECKS

All radioluminescent deposits shall be capable of successfully withstanding the tests specified in clause 5 of ISO 3157 carried out in the following conditions :

3.1 Checking of the colours, the specific luminous intensity and resistance to ageing

The colours, the specific luminous intensity and the resistance to ageing shall be checked on five standard deposits as defined in clause 5c) of ISO 3157, for each production batch of radioluminescent substance and each time the nature of the binder is altered.

These checks are the responsibility of the manufacturer of the radioluminescent substance.

If a user applies the radioluminescent substance in conditions which differ from those defined by the manufacturer of this substance (proportion and nature of the binder), the checks are the responsibility of such a user.

3.2 Checking of adhesion

The adhesion shall be checked :

3.2.1 For each production batch of radioluminescent substance and for each production batch of binder, on five standard supports.

The checks are the responsibility of the manufacturer of the radioluminescent substance.

3.2.2 For each new support or new deposit¹⁾ which has not undergone testing by the user concerned, on at least five pieces.

These checks are the responsibility of the user of the radioluminescent substance.

3.2.3 For each production batch of dials or hands or any part bearing a radioluminescent deposit, on a representative sample ensuring an acceptable quality level (AQL) of 1 %, under the standard inspection conditions defined in ISO 2859.

These checks are the responsibility of the user of the radioluminescent substance.

3.3 Checking of the insolubility

The insolubility shall be checked :

3.3.1 For each production batch of radioluminescent substance and for each production batch of binder, on the standard supports used for the checking of adhesion as defined in 3.2.1.

These checks are the responsibility of the manufacturer of the radioluminescent substance.

1) For the purpose of this International Standard, these terms have the following meanings :

- **new support** : Any part (hand, dial, bezel) which, owing to the nature of the materials and the treatments of the surface, is outside the previous experience of the user of the radioluminescent substance.
- **new deposit** : Any deposit of radioluminescent substance which, owing to its shape or dimensions, is outside the previous experience of the user of the radioluminescent substance.