BS ISO 3925:2014

BSI Standards Publication

Unsealed radioactive substances — Identification and documentation

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National foreword

This British Standard is the UK implementation of ISO 3925:2014.

The UK participation in its preparation was entrusted to Technical Committee NCE/2, Radiation protection and measurement.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Substances radioactives non scellées — Identification et documentation

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Contents

Page

Foreword ..... **iv**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Identification **1**
5 Certificate **2**
Bibliography **3**

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Foreword

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The committee responsible for this document is ISO/TC 85, *Nuclear energy, nuclear technologies and radiological protection*, Subcommittee SC 2, *Radiological protection*.

This second edition cancels and replaces the first edition (ISO 3925:1978), which has been technically revised.

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INTERNATIONAL STANDARD ISO 3925:2014(E)

Unsealed radioactive substances — Identification and documentation

1 Scope

This International Standard establishes the requirements for the identification and documentation of unsealed radioactive substances issued commercially by suppliers and which are intended for further handling or processing, either physical or chemical.

Requirements for radiopharmaceuticals and standard sources are not covered.

2 Normative references

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

ISO 361, *Basic ionizing radiation symbol*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
unsealed radioactive substance
radioactive substance placed in a container in a way enabling its further physical or chemical processing;

Note 1 to entry: The container does not meet or has not been demonstrated to meet the requirements for a sealed source as defined in ISO 2919.

3.2
radionuclidic purity
proportion of the total activity that is present in the sample as a specific radionuclide

3.3
radiochemical purity
percentage present in the sample of a given radionuclide that is in one specified chemical form

[SOURCE: ISO 921:1997]

3.4
specific activity
total activity of the sample divided by its mass

3.5
activity concentration
total activity of the sample divided by its volume

4 Identification

The container of the unsealed radioactive substance shall be durably and legibly marked with the following:

a) manufacturer's name or symbol;

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