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Reference materials — Selected terms and definitions

AMENDMENT 1: Revisions of definitions for reference material and certified reference material

Matériaux de référence — Termes et définitions choisis

AMENDEMENT 1: Révision des définitions de matériau de référence et de matériau de référence certifié

ICS: 71.040.30; 01.040.71

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This document was prepared by the ISO Committee on reference materials (REMCO).

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Reference materials — Selected terms and definitions

AMENDMENT 1: Revisions of definitions for reference material and certified reference material

Page 1, 2.1

Replace 2.1 with the following:

2.1

reference material

RM

material, sufficiently homogeneous and stable with respect to one or more specified properties, which has been established to be fit for its intended use in a measurement

Note 1 Reference material is a term that includes certified reference materials.

Note 2 Properties can be quantitative, ordinal, or nominal.

Note 3 ISO Guide 33 provides guidance on the uses of RMs, including the assessment of a measurement procedure, quality control of measurements, and for CRMs, the calibration of a measurement system and assignment of values to other reference materials. <https://standards.iteh.ai/catalog/standards/sist/6e073713-6edb-4e32-a8b7-71001ca27699/iso-guide-30-2019-amd-1>

Note 4 ISO/IEC Guide 99:2007 has an analogous definition (5.13) but restricts the term “measurement” to apply to quantitative values. However, Note 3 of ISO/IEC Guide 99:2007, 5.13 (VIM), specifically includes qualitative properties, called “nominal properties”.

Page 1, 2.2

Replace 2.2 with the following:

2.2

certified reference material

CRM

reference material, characterized by a metrologically valid approach for one or more specified properties, accompanied by an RM certificate that provides the values of the specified properties, associated uncertainties, and statements of metrological traceability

Note 1 Property values refer to quantitative, ordinal, or nominal properties. Uncertainties for nominal property values can be expressed as probabilities or levels of confidence.

Note 2 Metrologically valid approaches for characterization of RMs to establish metrological traceability of the property values, and requirements for RM certificates, are given in ISO 17034.

Note 3 ISO/IEC Guide 99:2007 has an analogous definition (5.14).