



SLOVENSKI STANDARD
kSIST FprEN 15079:2015
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Baker in bakrove zlitine – Analiza z optično emisijsko spektrometrijo, inducirano z iskrenjem (S-OES)

Copper and copper alloys - Analysis by spark source optical emission spectrometry (S-OES)

Kupfer und Kupferlegierungen - Analyse durch optische Emissionsspektrometrie mit Funkenanregung (F-OES)

Cuivre et alliages de cuivre - Analyse par spectrométrie d'émission optique à étincelles (SEO-E)

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ICS:

77.040.30	Kemijska analiza kovin	Chemical analysis of metals
77.120.30	Baker in bakrove zlitine	Copper and copper alloys

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Will supersede EN 15079:2007

English Version

Copper and copper alloys - Analysis by spark source optical emission spectrometry (S-OES)

Cuivre et alliages de cuivre - Analyse par spectrométrie d'émission optique à étincelles (SEO-E)

Kupfer und Kupferlegierungen - Analyse durch optische Emissionsspektrometrie mit Funkenanregung (F-OES)

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (FprEN 15079:2014) has been prepared by Technical Committee CEN/TC 133 "Copper and copper alloys", the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 15079:2007.

Within its programme of work, Technical Committee CEN/TC 133 requested CEN/TC 133/WG 10 "Methods of analysis" to revise this standard:

EN 15079:2007, *Copper and copper alloys — Analysis by spark source optical emission spectrometry (S-OES)*.

In comparison with EN 15079:2007, the following changes were made:

- a) Definitions 3.1 to 3.5 have been improved;
- b) 7.2.2 Calibration has been modified.

FprEN 15079:2014 (E)**1 Scope**

This European Standard specifies a routine method for the analysis of copper and copper alloys by spark source optical emission spectrometry (S-OES). The method is applicable to all elements except copper commonly present in copper and copper alloys as impurities or minor or main constituents, which can be determined by S-OES.

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 1811-1, *Copper and copper alloys — Selection and preparation of samples for chemical analysis — Part 1: Sampling of cast unwrought products*

ISO 1811-2, *Copper and copper alloys — Selection and preparation of samples for chemical analysis — Part 2: Sampling of wrought products and castings*

3 Terms and definitions

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

**3.1
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 process

[SOURCE: ISO GUIDE 30:1992/Amd.1:2008, definition 2.1]

**3.2
certified reference material**

CRM
reference material characterized by a metrologically valid procedure for one or more specified properties, accompanied by a certificate, that provides the value of the specified property, its associated uncertainty, and a statement of metrological traceability

[SOURCE: ISO GUIDE 30:1992/Amd.1:2008, definition 2.2]

**3.3
test sample**

representative quantity of material for testing purposes

**3.4
drift control samples**

series of homogeneous materials that contain all the elements which have been calibrated and that cover the low, mid and high points of the calibration range for each element, used to detect variations over time in these points

Note 1 to entry: Drift control samples can also be used for statistical process control (SPC) of the instrument.