



SLOVENSKI STANDARD SIST EN ISO 21079-2:2008

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Chemical analysis of refractories containing alumina, zirconia, and silica - Refractories containing 5 percent to 45 percent of ZrO₂ (alternative to the X-ray fluorescence method) - Part 2: Wet chemical analysis (ISO 21079-2:2008)

Chemische Analyse von aluminiumoxid-, zirkoniumoxid- und silicium(IV)-oxidhaltigen feuerfesten Erzeugnissen. Feuerfeste Erzeugnisse mit einem Massenanteil an ZrO₂ von 5 % bis 45 % (Alternative zum Röntgenfluoreszenzverfahren) - Teil 2: Nasschemische Analyse (ISO 21079-2:2008)

Analyse chimique des matériaux réfractaires contenant de l'alumine, de la zircone et de la silice - Matériaux réfractaires contenant de 5 % à 45 % de ZrO₂ (méthode alternative à la méthode par fluorescence de rayons X) - Partie 2: Analyse chimique par voie humide (ISO21079-2:2008)

Ta slovenski standard je istoveten z: EN ISO 21079-2:2008

ICS:

71.040.40	Kemijska analiza	Chemical analysis
81.080	Ognjevzdržni materiali	Refractories

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English Version

Chemical analysis of refractories containing alumina, zirconia,
and silica - Refractories containing 5 percent to 45 percent of
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(ISO 21079-2:2008)

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und silicium(IV)-oxidhaltigen feuerfesten Erzeugnissen -
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von 5 % bis 45 % (Alternative zum
Röntgenfluoreszenzverfahren) - Teil 2: Nasschemische
Analyse (ISO 21079-2:2008)

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Contents

Page

Foreword.....3

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Foreword

This document (EN ISO 21079-2:2008) has been prepared by Technical Committee ISO/TC 33 "Refractories" in collaboration with Technical Committee CEN/TC 187 "Refractory products and materials" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

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**Chemical analysis of refractories
containing alumina, zirconia, and silica —
Refractories containing 5 % to 45 %
of ZrO₂ (alternative to the X-ray
fluorescence method) —**

Part 2:

Wet chemical analysis**(standards.iteh.ai)**

*Analyse chimique des matériaux réfractaires contenant de l'alumine,
de la zirconie et de la silice — Matériaux réfractaires contenant de 5 %
à 45 % de ZrO₂ (méthode alternative à la méthode par fluorescence
de rayons X) —*

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Partie 2: Méthodes d'analyse chimique par voie humide

Reference number
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Contents

Page

Foreword.....	iv
1 Scope	1
2 Normative references	1
3 Determination of silicon(IV) oxide.....	2
4 Determination of aluminium oxide.....	4
5 Determination of iron(III) oxide.....	7
6 Determination of titanium(IV) oxide.....	8
7 Determination of calcium oxide	11
8 Determination of magnesium oxide.....	12
9 Determination of sodium oxide by flame photometry	13
10 Determination of potassium oxide by flame photometry	14
11 Determination of chromium(III) oxide using diphenylcarbazide.....	15
12 Determination of zirconium oxide (including hafnium oxide) by mandelic acid (α -hydroxybenzeneacetic acid) gravimetric method.....	16
13 Calculation and expression of test results	17
14 Test report	17
Bibliography	18

ISO 21079-2:2008(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.

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 21079-2 was prepared by Technical Committee ISO/TC 33, *Refractories*.

ISO 21079 consists of the following parts, under the general title *Chemical analysis of refractories containing alumina, zirconia, and silica — Refractories containing 5 % to 45 % of ZrO₂ (alternative to the X-ray fluorescence method)*:

- *Part 1: Apparatus, reagents and dissolution*
- *Part 2: Wet chemical analysis*
- *Part 3: Flame atomic absorption spectrophotometry (FAAS) and inductively coupled plasma emission spectrometry (ICP-AES)*

Chemical analysis of refractories containing alumina, zirconia, and silica — Refractories containing 5 % to 45 % of ZrO₂ (alternative to the X-ray fluorescence method) —

Part 2: Wet chemical analysis

1 Scope

This part of ISO 21079 specifies methods for the chemical analysis of AZS (alumina, zirconia, and silica) refractory products (containing 5 % to 45 % of ZrO₂) and raw materials, using traditional (“wet”) methods.

This part of ISO 21079 is not applicable to MgO-based refractories.

This part of ISO 21079 gives alternatives to the X-ray fluorescence (XRF) method given in ISO 12677.

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2 Normative references

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

ISO 10058-2:—¹⁾, *Chemical analysis of magnesite and dolomite refractory products (alternative to the X-ray fluorescence method) — Part 2: Wet chemical analysis*

ISO 21079-1:2008, *Chemical analysis of refractories containing alumina, zirconia and silica — Refractories containing 5 % to 45 % of ZrO₂ (alternative to the X-ray fluorescence method) — Part 1: Apparatus, reagents and dissolution*

ISO 21079-3:2008, *Chemical analysis of refractories containing alumina, zirconia and silica — Refractories containing 5 % to 45 % of ZrO₂ (alternative to the X-ray fluorescence method) — Part 3: Flame atomic absorption spectrophotometry (FAAS) and inductively coupled plasma emission spectrometry (ICP-AES)*

ISO 21587-2:2007, *Chemical analysis of aluminosilicate refractory products (alternative to the X-ray fluorescence method) — Part 2: Wet chemical analysis*

ISO 26845:2008, *Chemical analysis of refractories — General requirements for wet chemical analysis, atomic absorption spectrometry (AAS) and inductively coupled plasma atomic emission spectrometry (ICP-AES) methods*

1) To be published.