

SLOVENSKI STANDARD SIST EN ISO 10058-1:2009

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Chemical analysis of magnesite and dolomite refractory products (alternative to the X-ray fluorescence method) - Part 1: Apparatus, reagents, dissolution and determination of gravimetric silica (ISO 10058-1:2008) NDARD PREVIEW

Einführendes Element - Haupt-Element - Teil-Titel (ISO 10058-1:2008)

SIST EN ISO 10058-1:2009

Analyse chimique des produits de magnésie et de dotomie (méthode alternative à la méthode par fluorescence de rayons X). Partie 1. Appareillage, réactifs, mise en solution et détermination de la teneur en silice par gravimétrie (ISO 10058-1:2008)

Ta slovenski standard je istoveten z: EN ISO 10058-1:2008

ICS:

71.040.40 Kemijska analiza Chemical analysis

73.080 Nekovinske rudnine Non-metalliferous minerals

81.080 Ognjevzdržni materiali Refractories

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM **EN ISO 10058-1**

December 2008

ICS 73.080

Supersedes EN ISO 10058:1996

English Version

Chemical analysis of magnesite and dolomite refractory products (alternative to the X-ray fluorescence method) - Part 1: Apparatus, reagents, dissolution and determination of gravimetric silica (ISO 10058-1:2008)

Analyse chimique des produits de magnésie et de dolomie (méthode alternative à la méthode par fluorescence de rayons X) - Partie 1: Appareillage, réactifs, mise en solution et détermination de la teneur en silice par gravimétrie (ISO 10058-1:2008) Chemische Analyse von feuerfesten Erzeugnissen aus Magnesit und Dolomit (Alternative zur Röntgenfluoreszenzanalyse) - Teil 1: Geräte, Reagenzien, Aufschluss und gravimetrische Bestimmung von Silicium(IV)-oxid (ISO 10058-1:2008)

This European Standard was approved by CEN on 1 November 2008.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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

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EN ISO 10058-1:2008 (E)

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EN ISO 10058-1:2008 (E)

Foreword

This document (EN ISO 10058-1:2008) 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 June 2009, and conflicting national standards shall be withdrawn at the latest by June 2009.

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

This document supersedes EN ISO 10058:1996.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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(stan Endorsement notice)

The text of ISO 10058-1:2008 has been approved by CEN as a EN ISO 10058-1:2008 without any modification.

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INTERNATIONAL STANDARD

ISO 10058-1

First edition 2008-12-01

Chemical analysis of magnesite and dolomite refractory products (alternative to the X-ray fluorescence method) —

Part 1:

Apparatus, reagents, dissolution and determination of gravimetric silica eh STANDARD PREVIEW

Analyse chimique des produits de magnésie et de dolomie (méthode alternative à la méthode par fluorescence de rayons X) —

Partie 1: Appareillage, réactifs, mise en solution et détermination de la teneur en silice par gravimétrie. https://standards.iteh.avcatalogstandards/sist/aeia/bi-e0da-4131-9aad-



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Published in Switzerland

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ISO 10058-1:2008(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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 10058-1 was prepared by Technical Committee ISO/TC 33, Refractories.

This first edition of ISO 10058-1, together with ISO 10058-2 and ISO 10058-3, cancels and replaces ISO 10058:1992 which has been technically revised to include the increasing use of flame atomic absorption spectrophotometry (FAAS) and inductively coupled plasma atomic emission spectrometry (ICP-AES) methods as well some improvements in the wet chemical analyses procedures developed in Japan.

ISO 10058 consists of the following parts, under the general title Chemical analysis of magnesite and dolomite refractory products (alternative to the X-ray fluorescence method): 7aefa7bf-e0da-4131-9aad-4019948ea4efsist-en-iso-10058-1-2009

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

Chemical analysis of magnesite and dolomite refractory products (alternative to the X-ray fluorescence method) —

Part 1:

Apparatus, reagents, dissolution and determination of gravimetric silica

1 Scope

This part of ISO 10058 specifies apparatus, reagents, dissolution and gravimetric silica analysis for the chemical analysis of magnesite and dolomite refractory products and raw materials.

This part of ISO 10058 is applicable to the ranges of determination given in Table 1.

ISO 10058 specifies procedures for the chemical analysis of magnesite and dolomite refractory products and raw materials within the ranges of determination given in Table 1.

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Table 1 — Range of determination (percentage by mass)

Component	SISTEN SO 1005	8-1 Component	Range	
SiO ₂	0.1 to 10 0.2 to 10 0.2 to 10	10058-1-2009	30 to 99,9	
Al ₂ O ₃	0,05 to 10	Na ₂ O	0,01 to 1	
Fe ₂ O ₃	0,01 to 10	K ₂ O	0,01 to 1	
TiO ₂	0,01 to 1	Cr ₂ O ₃	0,01 to 3	
MnO	0,01 to 1	ZrO ₂	0,01 to 1	
CaO	0,01 to 60	P ₂ O ₅	0,01 to 5	
LOI	0,01 to 60			
NOTE These values are after the loss on ignition (LOI) has been taken into account.				

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 6353-1, Reagents for chemical analysis — Part 1: General test methods

ISO 6353-2, Reagents for chemical analysis — Part 2: Specifications — First series

ISO 6353-3, Reagents for chemical analysis — Part 3: Specifications — Second series

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