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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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 10058-1:2009 sisaldb Euroopa standardi EN ISO 10058-1:2008 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 10058-1:2009 consists of the English text of the European standard EN ISO 10058-1:2008.
Standard on kinnitatud Eesti Standardikeskuse 29.01.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 29.01.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kätesaadavaks tegemise kuupäev on 01.12.2008.	Date of Availability of the European standard text 01.12.2008.
Standard on kätesaadav Eesti standardiorganisatsionist.	The standard is available from Estonian standardisation organisation.

ICS 73.080

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EUROPEAN STANDARD
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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)

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COMITÉ EUROPÉEN DE NORMALISATION
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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.

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Endorsement notice

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

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Apparatus	2
5 Reagents.....	2
6 Sample preparation	6
7 Determination of loss on ignition (gravimetric)	6
8 Decomposition of the sample and preparation of solutions used in the analysis	6
8.1 General decomposition techniques	6
8.2 Dissolution methods by fusion.....	6
8.3 Dissolution methods by hydrofluoric acid attack.....	8
9 Calculation and expression of test results	10
10 Examination and adoption of test results.....	10
11 Test report.....	11
Annex A (informative) References for stock solutions and blank solutions in ISO 10058-1:2008	12

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.

Table 1 — Range of determination (percentage by mass)

Component	Range	Component	Range
SiO ₂	0,1 to 10	MgO	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*