BRITISH STANDARD

BS EN ISO
3262-12:2001
*Incorporating*
*Corrigendum No. 1*

# Extenders for paints — Specifications and methods of test —

## Part 12: Muscovite-type mica

The European Standard EN ISO 3262-12:2001 has the status of a British Standard

ICS 87.060.10

# National foreword

This British Standard is the official English language version of EN ISO 3262-12:2001. It is identical with ISO 3262-12:2001.

The UK participation in its preparation was entrusted to Technical Committee STI/1, Pigments, which has the responsibility to:

— aid enquirers to understand the text;

— present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;

— monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

**Cross-references**

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This British Standard, having been prepared under the direction of the Sector Policy and Strategy Committee for Materials and Chemicals, was published under the authority of the Standards Policy and Strategy Committee on 21 December 2001

**Summary of pages**

This document comprises a front cover, an inside front cover, the EN ISO title page, EN ISO foreword page, ISO title page, pages ii to iv, pages 1 and 2, the Annex ZA page and a back cover.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN ISO 3262-12

October 2001

ICS 87.060.10

English version

# Extenders for paints - Specifications and methods of test - Part 12: Muscovite-type mica (ISO 3262-12:2001)

Matières de charge pour peintures - Spécifications et méthodes d'essai - Partie 12: Mica de type muscovite (ISO 3262-12:2001)

Füllstoffe für Beschichtungsstoffe - Anforderungen und Prüfverfahren - Teil 12: Glimmer - Typ Muskovit (ISO 3262-12:2001)

This European Standard was approved by CEN on 15 October 2001.

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 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 Management Centre has the same status as the official versions.

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Ref. No. EN ISO 3262-12:2001 E

**CORRECTED 2002-01-09**

## Foreword

This document (ISO 3262-12:2001) has been prepared by Technical Committee ISO/TC 35 "Paints and varnishes" in collaboration with Technical Committee CEN/TC 298 "Pigments and extenders", the secretariat of which is held by DIN.

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 April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

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

### Endorsement notice

The text of the International Standard ISO 3262-12:2001 has been approved by CEN as a European Standard without any modification.

NOTE Normative references to International Standards are listed in annex ZA (normative).

EN ISO 3262–12:2001

INTERNATIONAL STANDARD

**ISO 3262-12**

First edition
2001-10-15

# Extenders for paints — Specifications and methods of test —

## Part 12: Muscovite-type mica

*Matières de charge pour peintures — Spécifications et méthodes d'essai —*

*Partie 12: Mica de type muscovite*

Reference number
ISO 3262-12:2001(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 3.

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 part of ISO 3262 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 3262-12 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 2, *Pigments and extenders*.

Together with the other parts (see below), this part of ISO 3262 cancels and replaces ISO 3262:1975, which has been technically revised. Part 1 comprises the definition of the term extender and a number of test methods that are applicable to most extenders, whilst part 2 and the following parts specify requirements and, where appropriate, particular test methods for individual extenders.

ISO 3262 consists of the following parts, under the general title *Extenders for paints — Specifications and methods of test*:

— *Part 1: Introduction and general test methods*

— *Part 2: Barytes (natural barium sulfate)*

— *Part 3: Blanc fixe*

— *Part 4: Whiting*

— *Part 5: Natural crystalline calcium carbonate*

— *Part 6: Precipitated calcium carbonate*

— *Part 7: Dolomite*

— *Part 8: Natural clay*

— *Part 9: Calcined clay*

— *Part 10: Natural talc/chlorite in lamellar form*

— *Part 11: Natural talc, in lamellar form, containing carbonates*

— *Part 12: Muscovite-type mica*

— *Part 13: Natural quartz (ground)*

— *Part 14: Cristobalite*

— *Part 15: Vitreous silica*

— *Part 16: Aluminium hydroxides*

— *Part 17: Precipitated calcium silicate*

— *Part 18: Precipitated sodium aluminium silicate*

— *Part 19: Precipitated silica*

— *Part 20: Fumed silica*

— *Part 21: Silica sand (unground natural quartz)*

— *Part 22: Flux-calcined kieselguhr*

# Extenders for paints — Specifications and methods of test —

# Part 12: Muscovite-type mica

## 1 Scope

This part of ISO 3262 specifies requirements and corresponding methods of test for muscovite-type mica.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 3262. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 3262 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 787-2:1981, *General methods of test for pigments and extenders — Part 2: Determination of matter volatile at* 105 °C

ISO 787-3:2000, *General methods of test for pigments and extenders — Part 3: Determination of matter soluble in water — Hot extraction method*

ISO 787-7:1981, *General methods of test for pigments and extenders — Part 7: Determination of residue on sieve — Water method — Manual procedure*

ISO 787-9:1981, *General methods of test for pigments and extenders — Part 9: Determination of pH value of an aqueous suspension*

ISO 787-14:1973, *General methods of test for pigments — Part 14: Determination of resistivity of aqueous extract*

ISO 787-18:1983, *General methods of test for pigments and extenders — Part 18: Determination of residue on sieve — Mechanical flushing procedure*

ISO 3262-1:1997, *Extenders for paints — Specifications and methods of test — Part 1: Introduction and general test methods*

## 3 Term and definition

For the purposes of this part of ISO 3262, the following term and definition apply.

**3.1**

**muscovite-type mica**

natural potassium aluminium silicate hydrate, $K_2O{\cdot}3Al_2O_3{\cdot}6SiO_2{\cdot}H_2O \mid KAl_2[(OH,F)_2/AlSi_3O_{10}]$, lamellar form

## 4 Requirements and test methods

For muscovite-type mica complying with this part of ISO 3262, the essential requirements are specified in Table 1 and the conditional requirements are listed in Table 2.

**Table 1 — Essential requirements**

| Characteristic | | Unit | Requirement | Test method |
|---|---|---|---|---|
| Composition | | | | |
| | $K_2O$ | % by mass | 9 to 12 | a |
| | $Al_2O_3$ | | 30 to 40 | |
| | $SiO_2$ | | 43 to 49 | |
| | $Fe_2O_3$, max. | | 3,5 | |
| | MgO, max. | | 1 | |
| Matter volatile at 105 °C, max. | | % by mass | 1 | ISO 787-2[b] |
| Loss on ignition, max. | | % by mass | 6,5 | ISO 3262-1 |
| Matter soluble in water (hot extraction method), max. | | % by mass | 0,5 | ISO 787-3 |
| pH-value of aqueous suspension | | | 6 to 9[c] | ISO 787-9 |

[a] EN 955-2:1995, *Chemical analysis of refractory products — Part 2: Products containing silica and/or alumina (wet method)* or any other recognized method that gives the same result may be used.

[b] By agreement between the interested parties, test portions other than 10 g may be used.

[c] These values do not take account of the effect on the result of any surface treatment.

**Table 2 — Conditional requirements**

| Characteristic | Unit | Requirement | Test method |
|---|---|---|---|
| Residue on sieve | % by mass | To be agreed between the interested parties | ISO 787-7 or ISO 787-18[a] |
| Particle size distribution (instrumental method) | | | To be agreed between the interested parties[b] |
| Colour | | | ISO 3262-1 |
| Lightness | | | To be agreed between the interested parties[c] |
| Resistivity of aqueous extract | $\Omega \cdot m$ | | ISO 787-14 |

[a] As the methods give different results, the method to be used shall be agreed between the interested parties.

[b] A general description of a sedimentation method using X-ray absorption is given in EN 725-5:1996, *Advanced technical ceramics — Methods of test for ceramic powders — Part 5: Determination of the particle size distribution.*

[c] Test method in preparation.

## 5 Test report

The test report shall contain at least the following information:

a) all details necessary to identify the product tested;

b) a reference to this part of ISO 3262 (ISO 3262-12);

c) the result of the tests and whether or not the product complies with the relevant specification limits;

d) any deviation from the test methods specified;

e) the dates of the tests.

# Annex ZA
(normative)

## Normative references to international publications with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

| Publication | Year | Title | EN | Year |
|---|---|---|---|---|
| ISO 787-2 | 1981 | General methods of test for pigments and extenders - Part 2: Determination of matter volatile at 105 degrees C | EN ISO 787-2 | 1995 |
| ISO 787-3 | 2000 | General methods of test for pigments and extenders - Part 3: Determination of matter soluble in water - Hot extraction method | EN ISO 787-3 | 2000 |
| ISO 787-9 | 1981 | General methods of test for pigments and extenders - Part 9: Determination of pH value of aqueous suspension | EN ISO 787-9 | 1995 |
| ISO 787-14 | 1973 | General methods of test for pigments - Part 14: Determination of resistivity of aqueous extract | EN ISO 787-14 | 2001 |
| ISO 787-18 | 1983 | General methods of test for pigments and extenders - Part 18: Determination of residue on sieve - Mechanical flushing procedure | EN ISO 787-18 | 1995 |
| ISO 3262-1 | 1997 | Extenders for paints - Specifications and methods of test - Part 1:Introduction and general test methods | EN ISO 3262-1 | 1998 |

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