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Extenders — Specifications and methods of test —

Part 7: Dolomite

ICS: 87.060.10

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 256, *Pigments, dyestuffs and extenders*.

This second edition cancels and replaces the first edition (ISO 3262-7:1998), which has been technically revised.

The main changes compared to the previous edition are as follows:

- the title has been changed to "Extenders";
- the test method for particle size distribution in [Table 2](#) has been changed to ISO 8130-13;
- the normative references have been updated and the text has been editorially revised.

A list of all parts in the ISO 3262 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Extenders — Specifications and methods of test —

Part 7: Dolomite

1 Scope

This document specifies requirements and corresponding methods of test for dolomite.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 787-2, *General methods of test for pigments and extenders — Part 2: Determination of matter volatile at 105 °C*

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

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

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

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

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

ISO 8130-13, *Coating powders — Part 13: Particle size analysis by laser diffraction*

ISO 15528, *Paints, varnishes and raw materials for paints and varnishes — Sampling*

ISO 18451-1, *Pigments, dyestuffs and extenders — Terminology — Part 1: General terms*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 18451-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 dolomite

natural calcium magnesium carbonate

Note 1 to entry: Note to entry 1: The chemical composition of dolomite is such that it contains between 1,18 and 1,23 parts by mass of CaCO₃ to 1,0 part by mass of MgCO₃.

4 Requirements

For dolomite complying with this document, 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
CaMg(CO ₃) ₂ content ^{a, b}	% mass fraction	97	90	80	ISO 3262-1
Matter volatile at 105 °C, max.	% mass fraction	0,3			ISO 787-2
Loss on ignition	% mass fraction	46 to 48 ^c			ISO 3262-1
Matter insoluble in hydrochloric acid, max.	% mass fraction	1	6	10	To be agreed between the interested parties
Matter soluble in water (hot extraction method), max.	% mass fraction	0,2			ISO 787-3
pH value of aqueous suspension		8 to 10,5 ^c			ISO 787-9
^a See Clause 3 .					
^b Details (composition) shall be given of any other minerals in the product.					
^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 ^a
Residue on 45 µm sieve	% mass fraction	To be agreed between the interested parties	ISO 787-7
Particle size distribution (instrumental method)	% mass fraction		ISO 8130-13
colour			ISO 3262-1
Lightness			To be agreed between the interested parties
Resistivity of aqueous extract	Ω·m		ISO 787-14

5 Sampling

Take a representative sample of the product to be tested, in accordance with ISO 15528.

6 Test report

The test report shall include at least the following information:

- a) all details necessary to identify the product tested;
- b) a reference to this document, i. e. ISO 3262-7:—;

- c) the results of the test, the method used, and whether or not the product complies with the relevant specification limits;
- d) any deviation from the method of test specified;
- e) any unusual features (anomalies) observed during the test;
- f) the date of the test.

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