
Natural aggregates for concrete

Granulats pour béton

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Contents

Page

Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	3
5 Geometrical requirements	3
5.1 General	3
5.2 Aggregate sizes	3
5.3 Grading	4
5.3.1 General	4
5.3.2 Coarse aggregates	4
5.3.3 Fine aggregates	5
5.3.4 All-in aggregates	5
5.3.5 Special use aggregates and declared grading categories	6
5.3.6 Grading for filler aggregate	6
5.3.7 Natural graded 0/8 mm aggregates	6
5.4 Fines content	7
5.5 Fines quality	7
5.6 Particle shape of coarse and all-in aggregates — Flakiness index and shape index	7
5.7 Shell content of coarse and all-in aggregates	8
6 Physical requirements	8
6.1 General	8
6.2 Resistance to fragmentation	8
6.3 Resistance to wear	8
6.4 Particle density and water absorption	8
6.4.1 Particle density	8
6.4.2 Water absorption	8
6.5 Bulk density	8
6.6 Resistance to polishing for surface courses	8
6.7 Resistance to surface abrasion	9
6.8 Resistance to abrasion from studded tyres to be used for surface courses	9
7 Chemical requirements	9
7.1 General	9
7.2 Petrographic description	9
7.3 Sulfur containing compounds	9
7.3.1 Acid-soluble sulfate	9
7.3.2 Total sulfur	9
7.4 Chlorides	10
7.5 Constituents which alter the rate of setting and hardening of concrete	10
8 Durability	11
8.1 General	11
8.2 Soundness of coarse aggregates	11
8.3 Freeze-thaw resistance	11
8.3.1 Water absorption as a screening test for freeze-thaw resistance	11
8.3.2 Resistance to freezing and thawing	12
8.3.3 Resistance to freezing and thawing in the presence of salt (extreme conditions)	12
8.4 Volume stability — Drying shrinkage	13
8.5 Alkali-silica reactivity	13
9 Evaluation of conformity	13
10 Designation	14

10.1	Designation and description	14
10.2	Additional information for the description of an aggregate	14
11	Marking and labelling	14
Annex A (informative) Guidance on the description of coarseness/fineness of fine aggregates		15
Annex B (informative) Guidance on the effects of some chemical constituents of aggregates on the durability of concrete in which they are incorporated		16
Bibliography		18

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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 on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 71, *Concrete, reinforced concrete and pre-stressed concrete*, Subcommittee SC 3, *Concrete production and execution of concrete structures*.

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Natural aggregates for concrete

1 Scope

This document specifies the properties and requirements of aggregates obtained by processing natural materials and mixtures of these aggregates for use in concrete. It is applicable to aggregates with an oven-dried particle density greater than 2,00 Mg/m³ (2 000 kg/m³) in accordance with ISO 22965 (all parts).

This document incorporates a general requirement that natural aggregates are not intended to release any harmful substances in excess of the maximum permitted levels specified for the material or permitted in the national regulations of the place in use.

National provisions, preferably given in a national annex or a project specification, can specify additional or deviating requirements.

NOTE Requirements for the end use of aggregates in concrete are specified in ISO 22965 (all parts).

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 6274, *Concrete — Sieve analysis of aggregates*

ISO 6782, *Aggregates for concrete — Determination of bulk density*

ISO 6783, *Coarse aggregates for concrete — Determination of particle density and water absorption — Hydrostatic balance method*

ISO 7033, *Fine and coarse aggregates for concrete — Determination of the particle mass-per-volume and water absorption — Pycnometer method*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

3.1

aggregate

granular material of natural, manufactured or recycled origin used in construction

3.2

natural aggregate

aggregate from mineral sources which has been subjected to nothing more than mechanical processing, such as crushing, washing and sieving