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Aggregates for concrete — Test methods for mechanical and physical properties —

Part 2: Method for determination of resistance to fragmentation by Los Angeles Test (LA-Test)

Granulats pour béton — Méthodes d'essai relatives aux propriétés mécaniques et physiques —

Partie 2: Partie 2: Méthode de détermination de la résistance à la fragmentation par l'essai Los Angeles

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Foreword

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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).

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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 71, *Concrete, reinforced concrete and pre-stressed concrete*, Subcommittee SC 1, *Test methods for concrete*.

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Aggregates for concrete — Test methods for mechanical and physical properties —

Part 2: Method for determination of resistance to fragmentation by Los Angeles Test (LA-Test)

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1 Scope

This document describes the Los Angeles test, for determining the resistance to fragmentation of coarse aggregates.

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 565, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*

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:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
Los Angeles coefficient
LA
percentage of the *test portion* (3.1) passing a pre-determined sieve after completion of the test

3.2
test portion
sample used as a whole in a single test

3.3
laboratory sample
reduced sample derived from a bulk sample for laboratory testing

3.4
constant mass
series of successive weighings after drying at least 1 h apart not differing by more than 0,1 %

Note 1 to entry: In many cases, constant mass can be achieved after a *test portion* (3.1) has been dried for a pre-determined period in a specified oven (see 5.1.3) at (105 ± 5) °C. Test laboratories may determine the time required to achieve constant mass for specific types and sizes of sample dependent on the drying capacity of the oven used.

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