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SOUTH AFRICAN NATIONAL STANDARD

Aggregates from natural sources — Aggregates for concrete

WARNING

**This document references other
documents normatively.**

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Table of changes

Change No.	Date	Scope
Amdt 1	2002	Has been amended to correct a reference in the note to clause 4 and to update referenced standards.
Amdt 2	2006	Amended to change the designation of SABS standards to SANS standards, to update the layout of definitions and to update the referenced standards.
Amdt 3	2013	Amended to modify the introduction, update referenced standards, to modify the definitions of "aggregate", "coarse aggregate" and "fine aggregate", change the sieve grading sizes and modify the requirements for coarse aggregate for use in concrete.
Amdt 4	2014	Amended to update the grading of sieve sizes and referenced standards.
Amdt 5	2017	Amended to correct the table on coarse aggregate for concrete, and to add notes on quality verification and on tests and guidance.
Amdt 6	2018	Amended to update the requirements for coarse aggregate, the table on fine aggregate for concrete, the table on coarse aggregate for concrete (new sieve sizes) and to add a table on coarse aggregate for concrete (old sieve sizes).

Foreword

This South African standard was prepared by National Committee SABS/TC 081/SC 01, *Construction materials, products and test methods – Cement, lime and concrete*, in accordance with procedures of the South African Bureau of Standards, in compliance with annex 3 of the WTO/TBT agreement.

This document was approved for publication in May 2018.

This document supersedes SANS 1083:2017 (edition 2.5).

A vertical line in the margin shows where the text has been technically modified by amendment No. 6.

This document is referenced in the Firearms Control Act, 2000 (Act No. 60 of 2000).

Annex A forms an integral part of this document. Annexes B and C are for information only.

Compliance with this document cannot confer immunity from legal obligations.

Introduction

This standard contains requirements for aggregates derived from natural sources that yield material of suitable characteristics and which, after normal processing (if necessary), can be safely used for most concrete work. However, it does not cover requirements for all the properties of an aggregate. Some of these properties could be important and, if not established to be satisfactory, could result in the production of concrete of inferior quality, especially with regard to long-term performance.

Amdt 3

Introduction (*concluded*)

Authoritative technical literature should be consulted for guidance on the further investigation of an aggregate to verify its suitability for use in concrete for any particular application. Such further investigation could indicate that an aggregate that does not comply with the requirements of this standard might nevertheless be suitable for use in any type of concrete or in concrete for specific uses only. It is emphasized, however, that an aggregate that has been found satisfactory either through past performance or by other means, but that does not comply with the requirements of this standard, cannot be claimed to comply with it.

Aggregates that do not comply with the requirements of this standard should only be used after all the consequences have been considered, and provided that the user possesses the necessary expertise in the use of such materials.