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Edition 4.2

SOUTH AFRICAN NATIONAL STANDARD

Short-link steel chain (medium-tolerance) Amdt 2

SANS 189:2010
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Table of changes

Change No.	Date	Scope
Amdt 1	2006	Amended to change the designation from SABS to SANS, and to delete reference to South African authorities in the body of the text.
Amdt 2	2010	Amended to change the title, to update the name of a national authority, to change the scope and properties in the table on mechanical properties, and to update referenced standards.

Foreword

This South African standard was approved by National Committee SABS/TC 1020, *Lifting equipment*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in December 2010.

This document supersedes SANS 189:2006 (edition 4.1).

A vertical line in the margin shows where the text has been technically modified by amendment No. 2.

Reference is made in 3.1.12 and table 1 to the "relevant national authorities". In South Africa this means the Department of Labour and the Department of Mineral Resources. **Amdt 1; amdt 2**

Annex A forms an integral part of this document. Annex B is for information only.

Compliance with this document cannot confer immunity from legal obligations.

**Reaffirmed and reprinted in February 2017.
This document will be reviewed every five years
and be reaffirmed, amended, revised or withdrawn.**

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Short-link steel chain (medium-tolerance)

Amdt 2

1 Scope

This standard specifies the requirements for electrically welded medium-tolerance short-link steel chain ranging in size from 4 mm to 50 mm (inclusive), of strength grades 4, 5, 6 and 8. Amdt 2

2 Normative references

The following referenced documents are indispensable for the application of this document. All normative documents are subject to revision and, since any reference to a normative document is deemed to be a reference to the latest edition of that document, parties to agreements based on this document are encouraged to take steps to ensure the use of the most recent editions of the normative documents indicated below. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

ISO 643, *Steels – Micrographic determination of the apparent grain size.*

SANS 7500-1/ISO 7500-1, *Metallic materials – Verification of static uniaxial testing machines – Part 1: Tension/compression testing machines – Verification and calibration of the force-measuring system.*

SANS 9001/ISO 9001, *Quality management systems – Requirements.*

3 Definitions and symbols

3.1 Definitions

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

3.1.1

acceptable

acceptable to the authority administering this standard or to the parties concluding the purchase contract, as relevant

3.1.2

breaking strength

F_m

when a chain is subjected to a static tensile test, the maximum force that the chain can withstand before destruction

3.1.3

chain size

d_n

nominal diameter of the steel wire or bar from which a chain is made