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SANS 80000-1:2017

Edition 1 and ISO tech. corr. 1

ISO 80000-1:2009

Edition 1 and tech. corr. 1

SOUTH AFRICAN NATIONAL STANDARD

Quantities and units

Part 1: General

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Table of changes

Change No.	Date	Scope
ISO tech. corr. 1	2011	Amended to update the subclause on chemical elements and nuclides.

National foreword

This South African standard was prepared by National Committee SABS/TC 070, *Legal metrology*, 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 October 2017.

Compliance with this document cannot confer immunity from legal obligations.

In South Africa the prefixes "hecto-", "deca-", "deci-" and "centi-", as indicated in table 4 of ISO 80000-1, do not represent steps of 1 000 and their general usage is, therefore, discouraged except in specialized fields. For example, the centimetre (cm) unit is used in the clothing and textile industries and therefore also for the measurements of the human body. It should preferably not be used elsewhere. It is sometimes felt necessary to use the prefixes "centi-" and "deci-" for SI units that are raised to the second or higher powers (for example, area (m²), volume (m³)) in order to avoid large steps that might be considered impractical. However, when such prefixes are used, additional factors of 10 or 100 are necessary to bring the data into a suitable form for calculation, which negates the simplicity of the SI system of units.

In South Africa the decimal comma is the only recognized decimal indicator for all numbers, including amounts of money. In addition, large numbers (except the year and ordinal numbers used as reference numbers) are divided into groups of three, separated by spaces.

