

ISBN 978-0-626-33468-0

**SANS 11885:2008**

Edition 2

**ISO 11885:2007**

Edition 2

## **SOUTH AFRICAN NATIONAL STANDARD**

# **Water quality — Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES)**

This national standard is the identical implementation of ISO 11885:2007, and is adopted with the permission of the International Organization for Standardization.

---

Published by SABS Standards Division  
1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001  
Tel: +27 12 428 7911 Fax: +27 12 344 1568

[www.sabs.co.za](http://www.sabs.co.za)

© SABS

**SABS**

---

**SANS 11885:2008**

Edition 2

**ISO 11885:2007**

Edition 2

**Table of changes**

<b>Change No.</b>	<b>Date</b>	<b>Scope</b>

**National foreword**

This South African standard was approved by National Committee SABS/TC 147/SC 06, *Water – Water sampling and analysis*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This SANS document was published in April 2008. This SANS document supersedes SANS 11885:1996 (edition 1 and national amendment 1).

**Compliance with this document cannot confer immunity from legal obligations.**

**Reaffirmed and reprinted in August 2016.  
This document will be reviewed every five years  
and be reaffirmed, amended, revised or withdrawn.**

SANS 11885:2008  
**INTERNATIONAL  
STANDARD**

**ISO  
11885**

Second edition  
2007-08-01

---

---

**Water quality — Determination of  
selected elements by inductively coupled  
plasma optical emission spectrometry  
(ICP-OES)**

*Qualité de l'eau — Dosage d'éléments choisis par spectroscopie  
d'émission optique avec plasma induit par haute fréquence (ICP-OES)*



Reference number  
ISO 11885:2007(E)

© ISO 2007

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2007

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

## Contents

Page

Foreword.....	iv
Introduction .....	v
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	2
4 Principle.....	5
5 Recommended wavelengths, limits of quantification and important spectral interferences .....	5
6 Interferences .....	9
7 Reagents.....	11
8 Apparatus .....	14
9 Sampling and preservation.....	15
10 Procedure .....	18
11 Expression of results .....	20
12 Test report .....	20
Annex A (informative) Special digestion methods .....	21
Annex B (informative) Precision data.....	22
Annex C (informative) Description of the matrices of the samples used for the interlaboratory trial .....	26
Bibliography .....	28