

# INTERNATIONAL STANDARD

**ISO**  
**11438-4**

First edition  
1993-12-01

---

---

## **Ferronickel — Determination of trace-element content by electrothermal atomic absorption spectrometric method —**

### **Part 4:**

Determination of tin content

*Ferro-nickel — Dosage des éléments-traces — Méthode par  
spectrométrie d'absorption atomique à excitation électrothermique —  
Partie 4: Dosage de l'étain*



Reference number  
ISO 11438-4:1993(E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11438-4 was prepared by Technical Committee ISO/TC 155, *Nickel and nickel alloys*, Sub-Committee SC 3, *Analysis of nickel and ferronickel*.

ISO 11438 consists of the following parts, under the general title *Ferronickel — Determination of trace-element content by electrothermal atomic absorption spectrometric method*:

- Part 1: General requirements and sample dissolution
- Part 2: Determination of lead content
- Part 3: Determination of antimony content
- Part 4: Determination of tin content
- Part 5: Determination of tellurium content
- Part 6: Determination of thallium content
- Part 7: Determination of silver content
- Part 8: Determination of indium content

© ISO 1993

All rights reserved. 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 the publisher.

International Organization for Standardization

Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland