



National Standards Authority of Ireland

STANDARD

**I.S. EN 14242:2004**

ICS 77.040.30  
77.120.10

**ALUMINIUM AND ALUMINIUM ALLOYS -  
CHEMICAL ANALYSIS - INDUCTIVELY  
COUPLED PLASMA OPTICAL EMISSION  
SPECTRAL ANALYSIS**

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EUROPÄISCHE NORM

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ICS 77.040.30; 77.120.10

English version

## Aluminium and aluminium alloys - Chemical analysis - Inductively coupled plasma optical emission spectral analysis

Aluminium et alliages d'aluminium - Analyse chimique -  
Analyse par spectrométrie d'émission optique en plasma  
induit

Aluminium und Aluminiumlegierungen - Chemische  
Analyse - Optische Emissionsspektralanalyse mit induktiv  
gekoppelter Plasmaanregung

This European Standard was approved by CEN on 1 July 2004.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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## **Foreword**

This document (EN 14242:2004) has been prepared by Technical Committee CEN/TC 132 "Aluminium and aluminium alloys", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2005, and conflicting national standards shall be withdrawn at the latest by March 2005.

Within its programme of work, Technical Committee CEN/TC 132 requested CEN/TC 132/WG 17 "Chemical analysis" to prepare the following standard:

EN 14242, *Aluminium and aluminium alloys — Chemical analysis — Inductively coupled plasma optical emission spectral analysis*.

This document includes a Bibliography.

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## **EN 14242:2004 (E)**

### **Introduction**

This document describes detailed steps for dissolution and preparation of calibration solutions. The preferred use is for certification and referee analysis. All instrumentation, including software used in the testing laboratories, are different and subject to change. Therefore, general criteria for calibration and measurement are specified.

This method has to be used with primary reference materials whose mass of substance have a significant smaller uncertainty as required of the repeatability of the testing procedure.

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