



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 23909:1994

ICS 77.160

National Standards  
Authority of Ireland  
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Ireland

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**HARDMETALS – DETERMINATION OF  
COBALT – POTENTIOMETRIC METHOD (ISO  
3909:1976)**

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on  
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Údarás um Chaighdeáin Náisiúnta na hÉireann



EUROPEAN STANDARD

EN 23909

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1993

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UDC 621.762:546.73:543.257.1

Descriptors: Powder metallurgy, hardmetals, chemical analysis, determination of content, cobalt, potentiometric methods

English version

**Hardmetals - Determination of cobalt -  
Potentiometric method (ISO 3909:1976)**

Métaux durs - Détermination du cobalt - Méthode  
potentiométrique (ISO 3909:1976)

Hartmetalle - Bestimmung des Kobaltgehaltes -  
Potentiometerverfahren (ISO 3909:1976)

This European Standard was approved by CEN on 1993-10-25. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist 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.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

### Foreword

On the proposal of the CEN Central Secretariat, the Technical Board decided to submit the International Standard:

"Hardmetals - Determination of cobalt - Potentiometric method (ISO 3909:1976)"

to the formal vote.

The result of the formal vote was positive.

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 April 1994, and conflicting national standards shall be withdrawn at the latest by April 1994.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

### Endorsement notice

The text of the International Standard ISO 3909:1976 was approved by CEN as a European Standard without any modification.

**DECLARATION**

OF

SPECIFICATION

ENTITLED

**HARDMETALS – DETERMINATION OF COBALT – POTENTIOMETRIC METHOD**

**(ISO 3909:1976)**

AS

**THE IRISH STANDARD SPECIFICATION FOR**

**HARDMETALS – DETERMINATION OF COBALT – POTENTIOMETRIC METHOD**

**(ISO 3909:1976)**

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Forfás in exercise of the power conferred by section 20 (3) of the Industrial Research and Standards Act, 1961 ( No. 20 of 1961 ) and the Industrial Development Act, 1993 (No. 19 of 1993), and with the consent of the Minister for Enterprise and Employment, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Hardmetals – Determination of Cobalt – Potentiometric Method (ISO 3909:1976)) Declaration, 1994.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Hardmetals – Determination of Cobalt – Potentiometric Method (ISO 3909:1976). The Schedule comprises the text of EN 23909 : 1993.

(2) The said standard specification may be cited as Irish Standard/EN 23909:1994 or as I.S./EN 23909:1994.



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