



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 27627-3:1994

ICS 77.160

**HARDMETALS – CHEMICAL ANALYSIS BY  
FLAME ATOMIC ABSORPTION  
SPECTROMETRY –  
PART 3: DETERMINATION OF COBALT,  
IRON, MANGANESE AND NICKEL IN  
CONTENTS  
FROM 0,01 TO 0,05% (M/M) (ISO 7627-3:1983)**

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Údarás um Chaighdeán Náisiúnta na hÉireann







## **DECLARATION**

**OF**

**SPECIFICATION**

**ENTITLED**

**HARDMETALS – CHEMICAL ANALYSIS BY FLAME ATOMIC ABSORPTION  
SPECTROMETRY – PART 3: DETERMINATION OF COBALT, IRON, MANGANESE AND  
NICKEL IN CONTENTS FROM 0,01 TO 0,05% (M/M) (ISO 7627-3:1983)**

**AS**

**THE IRISH STANDARD SPECIFICATION FOR**

**HARDMETALS – CHEMICAL ANALYSIS BY FLAME ATOMIC ABSORPTION  
SPECTROMETRY – PART 3: DETERMINATION OF COBALT, IRON, MANGANESE AND  
NICKEL IN CONTENTS FROM 0,01 TO 0,05% (M/M) (ISO 7627-3:1983)**

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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 – Chemical Analysis by Flame Atomic Absorption Spectrometry – Part 3: Determination of Cobalt, Iron, Manganese and Nickel in Contents from 0,01 to 0,05% (m/m) (ISO 7627-3:1983)) Declaration, 1994.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Hardmetals – Chemical Analysis by Flame Atomic Absorption Spectrometry – Part 3: Determination of Cobalt, Iron, Manganese and Nickel in Contents from 0,01 to 0,05% (m/m) (ISO 7627-3:1983). The Schedule comprises the text of EN 27627-3 : 1993.  
  
(2) The said standard specification may be cited as Irish Standard/EN 27627-3:1994 or as I.S./EN 27627-3:1994.







EUROPEAN STANDARD

EN 27627-3:1993

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1993

UDC 669.018.25:620.1:543.422

Descriptors: Powder metallurgy, hard metals, chemical analysis, determination of content, transition metals, cobalt, iron, manganese, nickel, spectrometric analysis, atomic absorption spectrophotometry

English version

**Hardmetals - Chemical analysis by flame atomic  
absorption spectrometry - Part 3: Determination of  
cobalt, iron, manganese and nickel in contents  
from 0,01 to 0,5 % (m/m) (ISO 7627-3:1983)**

Métaux-durs - Analyse chimique par  
spectrométrie d'absorption atomique dans la  
flamme - Partie 3: Dosage du cobalt, du fer, du  
manganèse et du nickel à des teneurs comprises  
entre 0,01 et 0,5 % (m/m) (ISO 7627-3:1983)

Hartmetalle - Chemische Analyse durch  
Flammenatomabsorptionsspektrometrie - Teil 3:  
Bestimmung des Cobalt-, Eisen-, Mangan- und  
Nickelgehaltes von 0,01 bis 0,5 % (m/m)  
(ISO 7627-3:1983)

This European Standard was approved by CEN on 1993-04-02. 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**

In 1992 ISO 7627-3:1983 "Hardmetals - Chemical analysis by flame atomic absorption spectrometry - Part 3: Determination of cobalt, iron, manganese and nickel in contents from 0,01 to 0,5 % (m/m)" was submitted to the CEN Primary Questionnaire procedure.

Following the positive result of the CEN/CS Proposal ISO 7627-3:1983 was submitted to the CEN 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 October 1993, and conflicting national standards shall be withdrawn at the latest by October 1993.

According to the Internal Regulations of CEN/CENELEC, 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 7627-3:1983 was approved by CEN as a European Standard without any modification.

**NOTE:** The European references to international publications are given in annex ZA (normative).



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