



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 24499:1994

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National Standards
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**HARDMETALS – METALLOGRAPHIC
DETERMINATION OF MICROSTRUCTURE
(ISO 4499:1978)**

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 24499:1993

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1993

UDC 669.018.25:620.186

Descriptors: Powder metallurgy, hard metals, metallography, microscopic analysis, microstructure, grain structure

English version

**Hardmetals - Metallographic determination of
microstructure (ISO 4499:1978)**

Métaux-durs - Détermination métallographique de
la microstructure (ISO 4499:1978)

Hardmetalle - Metallographische Bestimmung der
Mikrostruktur (ISO 4499:1978)

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.

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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 4499:1978 "Hardmetals - Metallographic determination of microstructure" was submitted to the CEN Primary Questionnaire procedure.

Following the positive result of the CEN/CS Proposal ISO 4499:1978 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of an identical text or by endorsement, at the latest by October 1993, and conflicting national standards shall be withdrawn at the latest by October 1993.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 4499:1978 was approved by CEN as a European Standard without any modification.

DECLARATION

OF

SPECIFICATION

ENTITLED

HARDMETALS – METALLOGRAPHIC DETERMINATION OF MICROSTRUCTURE

(ISO 4499:1978)

AS

THE IRISH STANDARD SPECIFICATION FOR

HARDMETALS – METALLOGRAPHIC DETERMINATION OF MICROSTRUCTURE

(ISO 4499:1978)

Forás 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 – Metallographic Determination of Microstructure (ISO 4499:1978)) Declaration, 1994.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Hardmetals – Metallographic Determination of Microstructure (ISO 4499:1978). The Schedule comprises the text of EN 24499 : 1993.

(2) The said standard specification may be cited as Irish Standard/EN 24499:1994 or as I.S./EN 24499:1994.

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