



SLOVENSKI STANDARD

SIST EN 24489:2000

01-december-2000

Sintered hardmetals - Sampling and testing (ISO 4489:1978)

Sintered hardmetals - Sampling and testing (ISO 4489:1978)

Sinterhartmetalle - Probenahme und Prüfung (ISO 4489:1978)

Métaux-durs frittés - Echantillonnage et essais (ISO 4489:1978)

Ta slovenski standard je istoveten z: **EN 24489:1993**

[SIST EN 24489:2000](https://standards.iteh.ai/catalog/standards/sist/98cac904-264a-4c6b-9be8-5137196d2233/sist-en-24489-2000)

<https://standards.iteh.ai/catalog/standards/sist/98cac904-264a-4c6b-9be8-5137196d2233/sist-en-24489-2000>

ICS:

77.040.10	Mehansko preskušanje kovin	Mechanical testing of metals
77.160	Metalurgija prahov	Powder metallurgy

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en

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EUROPEAN STANDARD

EN 24489:1993

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1993

UDC 621.762.5:669-492.2:620.1

Descriptors: Powder metallurgy, hard metals, sintered products, sampling, tests, standards lists

English version

**Sintered hardmetals - Sampling and testing
(ISO 4489:1978)**Métaux-durs frittés - Echantillonnage et essais
(ISO 4489:1978)Sinterhartmetalle - Probenahme und Prüfung
(ISO 4489:1978)**STANDARD PREVIEW**
(standards.iteh.ai)SIST EN 24489:2000<https://standards.iteh.ai/catalog/standards/sist/98cac904-264a-4c6b-9be8-5137196d2233/sist-en-24489-2000>

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.

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

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

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Foreword

In 1992 ISO 4489:1978 "Sintered hardmetals - Sampling and testing" was submitted to the CEN Primary Questionnaire procedure.

Following the positive result of the CEN/CS Proposal ISO 4489:1978 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.

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Endorsement notice

[SIST EN 24489:2000](#)

<https://standards.iteh.ai/catalog/standards/sist/98cac904-264a-4c6b-9be8-519244894178-24489-2000>

The text of the International Standard ISO 4489:1978 was approved by CEN as a European Standard without any modification.

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

Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 3326		Hardmetals - Determination of (the magnetization) coercivity	EN 23326	
ISO 3369		Impermeable sintered metal materials and hardmetals - Determination of density	EN 23369	
ISO 3738		Hardmetals - Rockwell hardness test (scale A)		
ISO 3878		Hardmetals - Vickers hardness test	EN 23878	
ISO 4499		Hardmetals - Metallographic determination of microstructure	EN 24499	
ISO 4505		Hardmetals - Metallographic determination of porosity and uncombined carbone	EN 24505	

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INTERNATIONAL STANDARD



4489

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Sintered hardmetals — Sampling and testing

Métaux-durs frittés — Échantillonnage et essais

First edition — 1978-06-15

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[SIST EN 24489:2000](https://standards.iteh.ai/catalog/standards/sist/98cac904-264a-4c6b-9be8-5137196d2233/sist-en-24489-2000)

<https://standards.iteh.ai/catalog/standards/sist/98cac904-264a-4c6b-9be8-5137196d2233/sist-en-24489-2000>

UDC 621.762 : 620.1

Ref. No. ISO 4489-1978 (E)

Descriptors : hardmetals, sintered products, sampling, tests.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4489 was developed by Technical Committee ISO/TC 119, *Powder metallurgical materials and products*, and was circulated to the member bodies in April 1977.

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It has been approved by the member bodies of the following countries :

Australia	Italy	Sweden
Austria	Japan	Turkey
Bulgaria	Mexico	United Kingdom
Canada	Poland	U.S.A.
Chile	Portugal	U.S.S.R.
Czechoslovakia	Romania	Yugoslavia
France	South Africa Rep. of	
Germany	Spain	

The member body of the following country expressed disapproval of the document on technical grounds :

Ireland