

SLOVENSKI STANDARD SIST EN ISO 3738-1:2010

01-julij-2010

Trdine - Preskus trdote po Rockwellu (skala A) - 1. del: Preskusne metode (ISO 3738-1:1982)

Hardmetals - Rockwell hardness test (scale A) - Part 1: Test method (ISO 3738-1:1982)

Hartmetalle - Rockwell-Härteprüfung (Skala A) - Teil 1: Prüfverfahren (ISO 3738-1:1982)

Métaux-durs - Essai de dureté Rockwell (échelle A) - Partie 1: Méthode d'essai (ISO 3738-1:1982) (standards.iteh.ai)

Ta slovenski standard je istoveten z: EN ISO 3738-1:2010 https://standards.itch.a/catalog/standards/sist/c8d43ab2-2e79-491b-ae2dc25919050764/sist-en-iso-3738-1-2010

ICS:

77.040.10 Mehansko preskušanje kovin Mechanical testing of metals

77.160 Metalurgija prahov Powder metallurgy

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EUROPEAN STANDARD

EN ISO 3738-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2010

ICS 77.040.10; 77.160

English Version

Hardmetals - Rockwell hardness test (scale A) - Part 1: Test method (ISO 3738-1:1982)

Métaux-durs - Essai de dureté Rockwell (échelle A) - Partie 1: Méthode d'essai (ISO 3738-1:1982) Hartmetalle - Rockwell-Härteprüfung (Skala A) - Teil 1: Prüfverfahren (ISO 3738-1:1982)

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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EN ISO 3738-1:2010 (E)

Foreword

The text of ISO 3738-1:1982 has been prepared by Technical Committee ISO/TC 119 "Powder metallurgy" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 3738-1:2010.

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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 3738-1:1982 has been approved by CEN as a EN ISO 3738-1:2010 without any modification. (standards.iteh.ai)

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International Standard



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

Hardmetals — Rockwell hardness test (scale A) — Part 1 : Test method

Métaux-durs — Essai de dureté Rockwell (échelle A) — Partie 1 : Méthode d'essai

First edition - 1982-10-15 Teh STANDARD PREVIEW (standards.iteh.ai)

Descriptors: powder metallurgy, hardmetals, tests, mechanical tests, hardness tests, Rockwell hardness.

<u>SIST EN ISO 3738-1:2010</u> https://standards.iteh.ai/catalog/standards/sist/c8d43ab2-2e79-491b-ae2d-c25919050764/sist-en-iso-3738-1-2010

UDC 669.018.25 : 620.178.152.42

Ref. No. ISO 3738/1-1982 (E)

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 3738/1 was developed by Technical Committee ISO/TC 119, *Powder metallurgy*, and was circulated to the member bodies in February 1982.

It has been approved by the member bodies of the following countries 38-1:2010

https://standards.iteh.ai/catalog/standards/sist/c8d43ab2-2e79-491b-ae2d-

c25919050764/sist-en-iso-3738-1-2010 Spain

Brazil Bulgaria Ireland Italy

Spain Sweden

Czechoslovakia

Korea, Rep. of Mexico Switzerland USA

Egypt, Arab Rep. of

Poland

USSR

France

China

Romania

Germany, F. R.

South Africa, Rep. of

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

United Kingdom

This International Standard cancels and replaces International Standard ISO 3738-1976 of which it constitutes a technical revision.

Hardmetals — Rockwell hardness test (scale A) — Part 1 : Test method

1 Scope and field of application

This part of ISO 3738 specifies the Rockwell hardness test (scale A) for hardmetals.

4 Symbols, designations and values of parameters

See table 1 and the figure.

Table 1

2 References

ISO/R 80, Rockwell hardness test (B and C scales) for steel.

ISO/R 716, Verification of Rockwell B and C scale hardness testing machines.

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3 Principle

Forcing a conical diamond indenter into a test piece in two 3738 operations and measurement of the permanent increase, and indents in the depth of indentation by means of a depth gauge underen-iso defined conditions.

	Symbol	Designation
	α	Angle of the diamond cone (120 \pm 0,5°)
	R	Radius of curvature at the tip of the cone (0,2 \pm 0,002 mm)
	F_0	Preliminary test force (98,07 ± 1,96 N)
D	PRI	Additional test force (490,3 N) Total test force (98,07 + 490,3 = 588,4 \pm 3,92 N)
i	eh.a	Depth of indentation under preliminary test force before application of the additional force
	h_1	Increase in depth of indentation under additional force
8-	1:20 <u>1</u> 0	Permanent increase in depth of indentation under
ist o-	/c8d43ab2 3738-1-20	preliminary force after removal of additional force, expressed in units of 0,002 mm
	HRA	Rockwell hardness $A = 100 - e$

