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**INTERNATIONAL STANDARD**



**5754**

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

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## **Sintered metal materials, excluding hardmetals — Unnotched impact test piece**

*Matériaux métalliques frittés, à l'exclusion des métaux-durs — Éprouvette non entaillée pour essai de résilience*

First edition — 1978-02-01

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[ISO 5754:1978](https://standards.iteh.ai/catalog/standards/sist/1f6cbddc-b404-44b6-a688-4c80572c6519/iso-5754-1978)

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UDC 621.762 : 620.115.84 : 620.178.742

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**Descriptors** : metallic products, sintered products, mechanical tests, impact tests, dimensions.

## 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 5754 was developed by Technical Committee ISO/TC 119, *Powder metallurgical materials and products*, and was circulated to the member bodies in March 1977.

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

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

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No member body expressed disapproval of the document.

# Sintered metal materials, excluding hardmetals – Unnotched impact test piece

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### 1 SCOPE

This International Standard specifies the dimensions of an unnotched impact test piece of sintered metal materials. The test piece may be obtained directly by pressing and sintering or by machining a sintered part.

### 2 FIELD OF APPLICATION

This International Standard applies to all sintered metals and alloys, with the exception of hardmetals. However, for certain materials (for example, materials having low porosity or materials with high ductility), it may be more appropriate to use a notched test piece which, in this case, will give results with less scatter. (In this case, refer to ISO 83 or ISO 148.)

NOTE – For porous sintered materials, the results obtained from impact tests are not necessarily very accurate and should not be compared with results obtained from tests on solid metals.

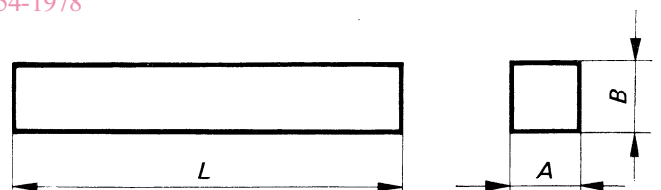
### 3 REFERENCES

ISO 83, *Steel – Charpy impact test (U-notch)*.

ISO 148, *Steel – Charpy impact test (V-notch)*.<sup>1)</sup>

### 4 DIMENSIONS OF TEST PIECE

The dimensions of the test piece shall be those shown in the table.



Values in millimetres

$L$	$A$	$B$
$55 \pm 1$	$10 \pm 0,2$	$10 \pm 0,2$

The test piece shall be marked in such a way that the direction of pressing may be identified.

The impact test shall be carried out on a Charpy impact testing machine, in accordance with ISO 83 or ISO 148.

Unless otherwise specified, the direction of impact shall be normal to the pressing direction.

1) At present at the stage of draft. (Revision of ISO/R 148.)

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