



SLOVENSKI STANDARD
SIST ISO 15967:2002

01-januar-2002

BYdcgfYXbc fYXi VjUbc yYnc !l [cHJ `UbY dcfi y]hj YbYhfXbcgh j fc Y
Vf] YhfUbY U yYnU

Direct reduced iron -- Determination of tumble strength of hot briquetted iron (HBI)

Minerais de fer pré-réduits -- Essai au tambour du fer briqueté à chaud

(standards.iteh.ai)

Ta slovenski standard je istoveten z: ISO 15967:2000

<https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002>

ICS:

73.060.10 Železove rude Iron ores

SIST ISO 15967:2002

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ISO 15967:2002](https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002)

<https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002>

INTERNATIONAL
STANDARD

ISO
15967

First edition
2000-08-15

**Direct reduced iron — Determination of
tumble strength of hot briquetted iron (HBI)**

Minerais de fer préréduits — Essai au tambour du fer briqueté à chaud

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ISO 15967:2002](https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002)

<https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002>



Reference number
ISO 15967:2000(E)

© ISO 2000

ISO 15967:2000(E)**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ISO 15967:2002](https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002)

<https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002>

© ISO 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Sampling and sample preparation	2
5 Test method.....	2
5.1 Principle.....	2
5.2 Apparatus	2
5.3 Preparation of test portions.....	3
5.4 Procedure	3
5.5 Expression of results	4
5.6 Number of tests and permissible tolerances.....	5
5.7 Test report	5
6 Verification	5
Annex A (normative) Operating procedure steps for the determination of tumble strength of HBI	6
Annex B (normative) Flowsheet for the procedure for the acceptance of test results.....	7

[SIST ISO 15967:2002](https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002)
<https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002>

ISO 15967:2000(E)**Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 15967 was prepared by Technical Committee ISO/TC 102, *Iron ore and direct reduced iron*, Subcommittee SC 5, *Physical testing of direct reduction feedstock and DRI*.

Annexes A and B form a normative part of this International Standard.

ITIH STANDARD PREVIEW
(standards.iteh.ai)

[SIST ISO 15967:2002](https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002)

<https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002>

Introduction

The international trade of hot briquetted iron (HBI) as a merchant commodity is increasing rapidly and is expected to grow beyond 10 million tonnes per annum in the twenty-first century. This has led to the need for the development of test method standards for HBI.

This International Standard specifies a method for the determination of the tumble strength of HBI. The test gives a relative measure of the resistance of HBI to size degradation by impact and abrasion, following the same principle as the tumble test for iron ores (see ISO 3271). The level of degradation measured in the test has been found to be similar to that experienced by HBI during ship loading, transport and bulk materials handling operations.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ISO 15967:2002](https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002)

<https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST ISO 15967:2002

<https://standards.iteh.ai/catalog/standards/sist/34783440-a8c8-4c66-92e1-33fe1cb1cf40/sist-iso-15967-2002>

Direct reduced iron — Determination of tumble strength of hot briquetted iron (HBI)

WARNING — This International Standard may involve hazardous materials, operations and equipment. This International Standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this International Standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use.

1 Scope

This International Standard specifies a method for the determination of the tumble strength of hot briquetted iron (HBI).

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3310-1:2000, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth.*

ISO 3310-2:1999, *Test sieves — Technical requirements and testing — Part 2: Test sieves of perforated metal plate.*

ISO 10835:1995, *Direct reduced iron — Sampling and sample preparation — Manual methods for reduced pellets and lump ores.*

ISO 11323:1996, *Iron ores — Vocabulary.*

3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 11323 and the following apply.

3.1

tumble index of HBI

relative measure of the tumble strength of the HBI expressed as the mass percentage of the + 6,3 mm size fraction following a tumble test

3.2

abrasion index of HBI

relative measure of the size degradation of the HBI by abrasion expressed as the mass percentage of the – 500 µm size fraction following a tumble test