

Translated and Published by Japanese Standards Association

JIS B 7027: 2018

(JCWA/JSA)

Shock-resistant wrist watches— Impact performance and test methods

ICS 39.040.10

 $Reference\ number:\ JIS\ B\ 7027:2018\ (E)$

B 7027:2018

Date of Establishment: 2018-08-20

Date of Public Notice in Official Gazette: 2018-08-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Consumer Life Products

JIS B 7027:2018, First English edition published in 2019-05

Translated and published by: Japanese Standards Association Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

© JSA 2019

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 the publisher.

Printed in Japan

Contents

	Page
Intro	oduction1
1	Scope1
2	Normative references — 1
3	Terms and definitions ————————————————————————————————————
4	Performance — 2
5	Shock tests ————4
6	Free-fall test7
7	Marking8
Annex A (normative) Shocks characteristics verification	
Ann	ex B (normative) Flow charts 11
Annex JA (normative) Fall shock test	
Ann	ex JB (informative) Comparison table between JIS and corresponding International Standard

Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Clock and Watch Association (JCWA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

Shock-resistant wrist watches— Impact performance and test methods

JIS B 7027:2018

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 1413**:2016, Edition 3, with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB. Annex JA covers contents unique to **JIS** and not given in the corresponding International Standard.

1 Scope

This Standard specifies the requirements for shock resistance of shock-resistant wrist watches (hereafter referred to as watches) and describes the corresponding test method. It is based on the simulation of the shock received by a wrist watch while falling from a height of 1 m onto a horizontal wooden floor. This Standard is not applicable to pocket watches.

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 1413:2016 Horology—Shock-resistant wrist watches (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 7001 Watches and clocks—Test methods

JIS B 7010 Parts of watches and clocks—Nomenclature

JIS B 7021 Water resistant watches for general use—Classification and water resistibility

NOTE Corresponding International Standard: ISO 22810 Horology—Water-resistant watches

JIS B 7023 Divers' watches—Classification and performance

JIS G 4303 Stainless steel bars

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS B 7001** and **JIS B 7010**, and the following apply.