



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS T 8024 : 2020

(JSAA/JSA)

Clothing for protection against heat and
flame — Determination of heat
transmission on exposure to both flame
and radiant heat

ICS 13.340.10

Reference number : JIS T 8024 : 2020 (E)

Date of Establishment: 2009-07-25

Date of Revision: 2020-03-25

Date of Public Notice in Official Gazette: 2020-03-25

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Safety

JIS T 8024 : 2020, First English edition published in 2020-12

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 2020

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

AH/AT

Contents

	Page
Introduction	1
1 Scope	2
2 Normative references	3
3 Terms and definitions	4
4 Principle	7
5 Apparatus	8
5.1 General	8
5.2 Heat source	9
5.3 Specimen holder assembly	9
5.4 Protective shutter	9
5.5 Specimen mounting plate	10
5.6 Specimen holding plate	10
5.7 Spacer	10
5.8 Sensor assembly	11
5.9 Data acquisition/analysis/equipment control system	12
5.10 Gas supply	12
5.11 Gas rotameter	13
5.12 Heat flux transducer	13
5.13 Solvent	13
6 Precautions	13
7 Sampling	13
7.1 Specimen dimensions	13
7.2 Number of specimens	14
8 Conditioning and testing atmospheres	14
8.1 Conditioning atmosphere	14
8.2 Testing atmosphere	14
9 Test procedure	14
9.1 Initial set up and calibration procedures	14
9.2 Sensor care	15
9.3 Specimen holder care	16
9.4 Computer processing of data	16
9.5 Test specimen mounting	16
9.6 Test specimen exposure when both TPI and HTI(DE) _x are measured	17
9.7 Test specimen exposure when only HTI(DE) _x is measured	17
10 Expression of results	18

10.1	Selection of analysis method	18
10.2	Thermal protection index (TPI) analysis method	18
10.3	Heat-transfer index-thermal analysis method	18
10.4	Response to convective and radiant heat exposure	19
11	Test report	19
Annex A (informative)	Information on availability of test equipment components	21
Annex B (informative)	Basis of sensor calibration	24
Annex C (informative)	Interlaboratory test data	25
Annex JA (informative)	Comparison table between JIS and corresponding International Standard	27

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry and the Minister of Health, Labour and Welfare through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Safety Appliances Association (JSAA)/ Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS T 8024: 2009**), which has been technically revised.

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

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