



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS H 7503 : 2003
(OSTEC/JSA)

**Method for measurement of cavity
volume fraction of superplastically
deformed metallic materials**

ICS 77.040.10

Reference number : JIS H 7503 : 2003 (E)

PROTECTED BY COPYRIGHT

 **Documents**
Document Sharing Hub

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from The Foundation of Osaka Science & Technology Center (OSTEC)/ Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Date of Establishment: 2003-10-20

Date of Public Notice in Official Gazette: 2003-10-20

Investigated by: Japanese Industrial Standards Committee
Standards Board
Technical Committee on Non-Ferrous
Metals

JIS H 7503:2003, First English edition published in 2004-02

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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

© JSA 2004

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

PROTECTED BY COPYRIGHT

 **Documents**
Document Sharing Hub

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Definitions	1
4 Preparation of sample	1
5 Measurement of density	2
5.1 Apparatus	2
5.2 Test water and storage water	3
5.3 Operation	3
5.4 Calculation of density	3
6 Cavity volume fraction	4
7 Report	4
7.1 Testing materials	4
7.2 Conditions for superplastic deformation	5
7.3 Mass of sample	5
7.4 Test results	5