



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 6330-8 : 1998
(ISO 6803 : 1994)

**Testing methods for
rubber and plastics hoses—
Part 8 : Hydraulic-pressure
impulse test without flexing**

ICS 83.140.40

Descriptors : synthetic rubber, plastics; flexible pipes, hose connectors; testing,
hydraulic pressure, mechanical shock, impact testing, pressure testing

Reference number : JIS K 6330-8 : 1998 (E)

K 6330-8 : 1998 (ISO 6803 : 1994)

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

In order to conform to the corresponding International Standard, this part has been established based on **ISO 6803 : 1994**.

Attention shall be drawn to the possibility that a part of this Standard may conflict with a patent right, application for a patent right 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 right after opened, utility model right or application for registration of utility model after opening to the public which have the technical properties of this kind.

JIS K 6330 *Testing methods for rubber and plastics hoses* consists of the following 10 parts:

Part 1: *Methods of measurement of dimensions*

Part 2: *Hydrostatic testing*

Part 3: *Determination of suction resistance*

Part 4: *Sub-ambient temperature flexibility tests*

Part 5: *Determination of electrical resistance*

Part 6: *Determination of adhesion between components*

Part 7: *Assessment of ozone resistance under static conditions*

Part 8: *Hydraulic-pressure impulse test without flexing*

Part 9: *Bending tests*

Part 10: *Determination of transmission of liquids through hose walls*

Date of Establishment: 1998-03-20

Date of Public Notice in Official Gazette: 1998-03-20

Investigated by: Japanese Industrial Standards Committee

Divisional Council on Chemical

JIS K 6330-8:1998, First English edition published in 1999-10

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 1999

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

Testing methods for rubber and plastics hoses— Part 8 : Hydraulic-pressure impulse test without flexing

Introduction This Japanese Industrial Standard has been prepared based on the second edition of **ISO 6803**, *Rubber or plastics hoses and hose assemblies—Hydraulic-pressure impulse test without flexing* published in 1994 without any modification in technical content.

1 Scope This Japanese Industrial Standard specifies the testing methods of the hydraulic-pressure impulse test without flexing for rubber and plastics hoses and hose assemblies (hereafter referred to as “hose”). The test is applicable to high-pressure hydraulic hoses which are subject to pulsating pressure in service.

Remarks 1 If it is required to carry out the test with flexing, the method specified in **ISO 6802 : 1991**, *Rubber and plastics hose and hose assemblies with wire reinforcements—Hydraulic impulse test with flexing* should be used.

2 The International Standard corresponding to this Standard is shown as follows:

ISO 6803 : 1994 *Rubber or plastics hoses and hose assemblies—Hydraulic-pressure impulse test without flexing*

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of coming into effect (or the year of publication) is given to these referred standards, only the edition of indicated year constitutes the provision of this Standard but the revision and amendment made thereafter are not applied. The normative references without the indication of the year of coming into effect (or the year of publication) apply limiting only to the most recent edition (including the amendment).

JIS K 2213 *Turbine oils*

Remarks : The quoted items from **ISO 3448 : 1992**, *Industrial liquid lubricants—ISO viscosity classification* are equivalent to the pertinent items of this Standard.

ISO/TR 11340 : 1994 *Rubber and rubber products—Hydraulic hose assemblies—External leakage classification for hydraulic systems*

3 Apparatus

3.1 Pressure-application apparatus The apparatus shall be that capable of applying an internal pulsating pressure to the hose at a rate of (1 ± 0.25) Hz in frequency using the test liquid which circulates through the hose at the required temperature. The cycle of each pulsating pressure shall be within the tolerances as shown in Attached Fig. 1.