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(JRMA/JSA)

**Testing methods for rubber and plastics
hoses and hose assemblies —**

**Part 3: Determination of resistance to
vacuum**

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In the event of any doubts arising as to the contents,
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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Rubber Manufacturers Association (JRMA)/ Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently, **JIS K 6330-3: 1998** is replaced with this Standard.

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JIS K 6330 series consists of the following 10 parts.

JIS K 6330-1 *Testing methods for rubber and plastics hoses — Part 1: Methods of measurement of dimensions for hoses and hose assemblies*

JIS K 6330-2 *Rubber and plastics hoses and hose assemblies — Part 2: Hydrostatic testing*

JIS K 6330-3 *Testing methods for rubber and plastics hoses and hose assemblies — Part 3: Determination of resistance to vacuum*

JIS K 6330-4 *Testing methods for rubber and plastics hoses — Part 4: Sub-ambient temperature flexibility tests*

JIS K 6330-5 *Testing methods for rubber and plastics hoses — Part 5: Determination of electrical resistance*

JIS K 6330-6 *Rubber and plastics hoses — Part 6: Determination of adhesion between components*

JIS K 6330-7 *Rubber and plastics hoses — Part 7: Assessment of ozone resistance under static conditions*

JIS K 6330-8 *Testing methods for rubber and plastics hoses — Part 8: Hydraulic pressure impulse test without flexing*

JIS K 6330-9 *Testing methods for rubber and plastics hoses — Part 9: Bending properties of hoses and tubing*

JIS K 6330-10 *Testing methods for rubber and plastics hoses — Part 10: Determination of transmission of liquids through hose walls*

Testing methods for rubber and plastics hoses and hose assemblies — Part 3 : Determination of resistance to vacuum

Introduction

This Japanese Industrial Standard has been prepared based on the third edition of **ISO 7233** published in 2006 with some modifications of the technical contents.

The portions with continuous sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies three methods for determining the resistance to vacuum of hoses and hose assemblies manufactured from plastic or rubber (hereafter referred to as “hoses”).

Applicable dimensions of hoses for each method are as follows.

Method A for hoses of nominal bore up to and including 80 mm.

Method B for hoses of nominal bore greater than 80 mm.

Method C for hoses of all dimensions.

NOTE 1 Hose assemblies refer to hoses with end fittings.

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

ISO 7233 : 2006 *Rubber and plastics hoses and hose assemblies — Determination of resistance to vacuum* (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 7502 *Micrometer callipers*

JIS B 7507 *Vernier, dial and digital callipers*

JIS B 7512 *Steel tape measures*

JIS B 7516 *Metal rules*