



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 6218-3 : 2005
(JRMA/JSA)

**Carbon black for rubber industry—
Secondary characteristics—
Part 3: Determination of sieve residue**

ICS 83.040.20

Reference number : JIS K 6218-3 : 2005 (E)

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 Japan Rubber Manufacturers Association (JRMA)/Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently **JIS K 6218:1997** is withdrawn and replaced partly with this Standard.

This Standard has been made based on **ISO 1437:1992** *Rubber compounding ingredients—Carbon black—Determination of sieve residue* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

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.

JIS K 6218 consists of the following 5 parts under the general title “*Carbon black for rubber industry—Secondary characteristics—*”

Part 1: Determination of loss on heating

Part 2: Determination of ash

Part 3: Determination of sieve residue

Part 4: Determination of light transmittance of toluene extract

Part 5: Determination of solvent extractable material

Date of Establishment: 2005-03-20

Date of Public Notice in Official Gazette: 2005-03-22

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Chemical Products

JIS K 6218-3:2005, First English edition published in 2005-12

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.

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Printed in Japan

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Carbon black for rubber industry— Secondary characteristics— Part 3: Determination of sieve residue

Introduction This Japanese Industrial Standard has been prepared based on the third edition of **ISO 1437 Rubber compounding ingredients—Carbon black—Determination of sieve residue** published in 1992 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with the explanations is given in Annex (informative).

WARNING : Persons using this Standard should be familiar with normal laboratory practice. This Standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

1 Scope This Standard specifies a method for determining the water-wash sieve residue from carbon black for the rubber industry.

It may not be applicable to oil-treated blacks because the oil could prevent proper wetting of the black by water.

Remarks : The International Standard corresponding to this Standard is as follows.

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**.

ISO 1437:1992 *Rubber compounding ingredients—Carbon black—Determination of sieve residue* (MOD)

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

JIS Z 8401 *Guide to the rounding of numbers*

ISO 565:1990 *Test sieves—Metal wire cloth, perforated metal plate and electroformed sheet—Nominal sizes of openings*

3 Principle A known mass of carbon black is washed through a test sieve by a controlled flow of water, and the residue dried and weighed. The test sieve aperture is chosen from the range given in the appropriate material specification.