

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 6218-3 : 2016

(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 : 2016 (E)**

K 6218-3 : 2016

Date of Establishment: 2005-03-20

Date of Revision: 2016-03-22

Date of Public Notice in Official Gazette: 2016-03-22

Investigated by: Japanese Industrial Standards Committee
Standards Board for ISO area
Technical Committee on Chemical Products and
Analytical Methods

JIS K 6218-3:2016, First English edition published in 2016-06

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 2016

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

NH/AT

PROTECTED BY COPYRIGHT

Contents

	Page
Introduction.....	1
1 Scope.....	1
2 Normative references	1
3 Principle of the test method	2
4 Apparatus	2
5 Test procedure	4
5.1 General.....	4
5.2 Determination	4
6 Expression of results.....	5
7 Precision and bias	5
8 Test report	5
Annex JA (informative) Precision and bias.....	6
Annex JB (informative) Comparison table between JIS and corresponding International Standard	8

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 6218-3:2005** is replaced with this Standard.

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

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

JIS K 6218 series 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

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

Introduction

This Japanese Industrial Standard has been prepared based on the fourth edition of **ISO 1437** published in 2007 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 Standards have been modified. A list of modifications with the explanations is given in Annex JB.

1 Scope

This Standard specifies a method for determining the water-wash sieve residue from carbon black used as a compounding agent for raw materials in the rubber industry (hereafter referred to as “carbon black”).

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

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

ISO 1437:2007 *Rubber compounding ingredients—Carbon black—Determination of sieve residue* (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**.

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 of this Standard to establish appropriate safety and health practices.

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 Z 8401 *Guide to the rounding of numbers*

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