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(JRMA/JSA)

**Carbon black for rubber industry —
Secondary characteristics — Part 4:
Determination of light transmittance
of toluene extract**

ICS 83.040.20

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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 6218-4 : 2005** is replaced with this Standard.

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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 4 : Determination of light transmittance of toluene extract

Introduction

This Japanese Industrial Standard has been prepared based on the third edition of **ISO 3858** published in 2008 with some modifications of the technical contents.

The portions given 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 JB. Annex JA in this Standard is not contained in the corresponding International Standard.

1 Scope

This Standard specifies a method for the determination of light transmittance of toluene extract from carbon black which is used for the rubber compounding ingredients (hereafter referred to as the "carbon black") among secondary characteristics thereof.

NOTE 1 The light transmittance of toluene extract means the degree of discolouration caused by the toluene-extractable matter present on the surface of the carbon black.

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

ISO 3858 : 2008 *Rubber compounding ingredients — Carbon black — Determination of light transmittance of toluene extract* (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 to establish appropriate safety and health practices.

Carbon blacks may contain polycyclic aromatic compounds, some of which are known carcinogens. These compounds, when present, are so strongly bound to the carbon black that they are biologically inactive, but they may be removed by the procedure specified in this Standard. Care should be taken to avoid skin contact with solvent extracts from carbon blacks.