TECHNICAL **SPECIFICATION**

ISO/TS 16095

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Reclaimed rubber derived from products containing mainly natural rubber — Evaluation procedure

Atcho.

Atcho. Caoutchouc régénéré dérivé principalement de produits contenant du





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

The committee responsible for this document is ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 3, *Raw materials (including latex) for use in the rubber industry.*

NOTE 1 ISO/TC 45/SC 3 decided to publish a Technical Specification, because the result of the interlaboratory test procedure (ITP) to validate the evaluation procedure on reclaimed natural rubber may be dubious.

NOTE 2 If the result of this ITP shows that the procedure is reproductible and reproducible, then this Technical Specification will be converted into International Standard.

Reclaimed rubber derived from products containing mainly natural rubber — Evaluation procedure

1 Scope

This Technical Specification defines

- the physical and chemical tests on raw reclaimed natural rubber, and
- the standard materials, standard test formulations, equipment, and processing methods for evaluating the vulcanization characteristics, and the mechanical properties of reclaimed natural rubber.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 37, Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties

ISO 247:2006, Rubber — Determination of ash

 $ISO\,289-1, Rubber, unvulcanized -- Determinations using a shearing-disc viscometer -- Part\,1: Determination of Mooney viscosity$

ISO 1407:2011, Rubber — Determination of solvent extract

ISO 1408:1995, Rubber — Determination of carbon black content — Pyrolytic and chemical degradation methods

ISO 1795, Rubber, raw natural and raw synthetic — Sampling and further preparative procedures

ISO 2393, Rubber test mixes — Preparation, mixing and vulcanization — Equipment and procedures

ISO 3417, Rubber — Measurement of vulcanization characteristics with the oscillating disc curemeter

ISO 6502, Rubber — Guide to the use of curemeters

ISO 7619-1, Rubber, vulcanized or thermoplastic — Determination of indentation hardness — Part 1: Durometer method (Shore hardness)

ISO 23529, Rubber — General procedures for preparing and conditioning test pieces for physical test methods

ASTM D297-13, Standard Test Methods for Rubber Products — Chemical Analysis

3 Sampling and sample preparation

- **3.1** Take a laboratory sample of approximately 1,5 kg by the method described in ISO 1795.
- **3.2** Prepare the test sample in accordance with ISO 1795.