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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 41939-2022

**Rubber - Determination of magnesium content by atomic
absorption spectrometry**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document is modified to adopt ISO 6101-6:2018 "Determination of Metal Content by Atomic Absorption Spectrometry in Rubber - Part 6. Determination of Magnesium Content Determination".

The technical differences between this document and ISO 6101-6:2018 and their reasons are as follows.

--- For standard use, "this document is applicable to the magnesium content in natural concentrated latex, natural rubber and natural rubber products" has been added to the scope

determination";

--- In order to improve the use of documents, the sampling method of natural rubber products has been added (see Chapter 7);

--- To harmonize the use of documents, the normative reference document ISO 4661-2 (see Chapter 7) for sampling methods of natural rubber products has been added.

The following editorial changes have been made to this document.

--- In order to coordinate with the existing documents, change the name of the document to "Determination of Magnesium Content in Rubber by Atomic Absorption Spectrometry";

--- For context consistency and coordination, the text structure of "Preparation of samples" has been adjusted (see 8.1.1 and 8.1.3).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies a method for the determination of magnesium in natural latex concentrate, natural rubber and natural rubber products using atomic absorption spectrometry.

This document applies to the determination of magnesium content in natural latex concentrate, natural rubber and natural rubber products.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

ISO 123 Rubber latex sampling (Rubberlatex-Sampling)

Note. GB/T 8290-2021 latex sampling (ISO 123.2001, MOD)

Note. GB/T 8298-2017 Determination of total solid content of latex (ISO 124.2014, MOD)

ISO 247-1 Determination of rubber ash content Part 1. Combustion method (Rubber-Determination of ash-Part 1. Combustion method)

bustion method)

Note. GB/T 4498.1-2013 Determination of Rubber Ash Content Part 1. Muffle Furnace Method (ISO 247.2006, MOD)

Note. GB/T 12807-2021 Laboratory Glass Instruments Graduated Pipettes (ISO 835.2007, NEQ)

Note. GB/T 12806-2011 Laboratory Glass Instruments Single Marked Line Volumetric Flasks (ISO 1042.1998, NEQ)

Note. GB/T 15340-2008 Natural and synthetic raw rubber sampling and sample preparation method (ISO 1795.2000, IDT)

ISO 4661-2 Preparation of vulcanized rubber or thermoplastic rubber chemical test samples and test specimens (Rubber, vulcanized or other-

Note. Preparation of GB/T 17783-2019 Vulcanized Rubber or Thermoplastic Rubber Chemical Test Samples and Test Specimens (ISO 4661-2.2018, MOD)

3 Terms and Definitions

This document does not have terms and definitions that need to be defined.

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