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SN

INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 3470.1-2013

Rubber, raw. Determination of bound acrylonitrile content in acrylonitrile-butadiene rubber(NBR). Part 1: Combustion method

生橡胶 丙烯腈-丁二烯橡胶(NBR)中结合丙烯腈含量的测定 第1部分：燃烧法

(English Translation)

Issued on: March 1, 2013 **Implemented on: September 16, 2013**

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4.1 Standards

Foreword

SN/T 3470 "raw rubber acrylonitrile - butadiene rubber (NBR) Determination of bound acrylonitrile content" is divided into two parts.

--- Part 1. combustion;

--- Part 2. Kjeldahl method.

This section SN/T 3470 Part 1.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section identical with the international standard ISO 24698-1:2008 (E).

This part uses ISO 24698-1. When 2008 (E) made editorial changes, the main differences are as follows.

--- With specified format GB/T 1.1-2009 of;

--- Punctuation by Chinese customs editor;

--- Use the decimal symbol "*" instead of decimal notation, "";

--- With "this Part" instead of "this International Standard";

--- Delete international standards preface, directory and reports section;

--- Reference material (4.1) increased acetyl aniline.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

1 Scope

SN/T 3470 provisions of this part of the automatic elemental analyzer acrylonitrile - butadiene rubber (NBR) bound acrylonitrile containing Method quantity.

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This section applies to an acrylonitrile - butadiene rubber (NBR) and latex binding acrylonitrile content.

Note: Part 1 and Part 2 of this standard for any given rubber samples does not necessarily give the same result.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 3516-2006 rubber solvent extraction of the analyte (ISO 1407:1992, MOD) GB/T 15340 natural, synthetic rubber raw sampling and sample preparation method (GB/T 15340-2008, ISO 1795:2000, IDT) SH/T 1149 sampling synthetic rubber latex (SH/T 1149-2006, ISO 123:2001, MOD) Principle 3 Raw rubber samples into high purity oxygen through nitrogen in high-temperature combustion apparatus is oxidized to nitrogen oxides, nitrogen oxides reduction apparatus Oxidation catalyst is reduced to nitrogen, carbon dioxide and water vapor generated at the same time being absorbed by the absorbent or other separation method with nitrogen Separated, and finally, with the carrier gas into the gas generated by the final content of the heat conductivity detector detects nitrogen.

4 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade.

4.1 Standards

4.1.1
acetanilide.

4.1.2
L- aspartic acid. the content of >=99%.

4.1.3
L- glutamic acid. the content of >=99%.

4.1.4
EDTA. Content >=99%.

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