

ICS 71.100.40

CCS G71



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

GB/T 11407-2013

Replacing GB/T 11407-2003

Vulcanizing accelerator 2 - Mercaptobenzothiazole (MBT)

硫化促进剂2 巯基苯骈噻唑 (MBT)

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Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. This standard replaces GB/T 11407-2003 "vulcanization accelerator M", compared with the GB/T 11407-2003 main technical changes are as follows:

- The standard name "vulcanization accelerator M" to "vulcanization accelerators benzothiazole 2-mercaptobenzothiazole (MBT)";
- Increased CASRN (see Chapter 1);
- Increase the purity of technical requirements and test methods of mass fraction (see Chapters 3 and 4.7);
- Delete indexes and classification (see Chapter 3). The standard proposed by China Petroleum and Chemical Industry Association. This standard by the National Rubber and rubber products Standardization Technical Committee chemical additives division Technical Committee (SAC/TC35/SC12). This standard is drafted by: Comay Chemical Corporation. Participated in the drafting of this standard. Henan Province, opened Oakland Chemical Co., Ltd., Shandong Sunsine Chemical Co., Northeast Auxiliary Chemical Industry Co., The company, Henan Henry Rubber Technology Co., Ltd., Tianjin Organic Chemical Plant, Puyang Wei Lin Chemical Co., Ltd., Rongcheng City Chemical Plant Limited. The main drafters of this standard. Wang Shuhua, Bai Chunmei, Sun Guiying. This standard was first published in 1989, the first revision in 2003, this is the second revision. Vulcanization accelerator, 2-mercaptobenzothiazole benzothiazole (MBT)

1 Scope

GB/T 11407-2013 is the Chinese national standard on vulcanizing accelerator 2 - mercaptobenzothiazole (mbt), in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 19 July 2013 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2013.

Classification: ICS 71.100.40, CCS G71. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the vulcanization accelerator, 2-mercaptobenzothiazole benzothiazole (referred vulcanization accelerator MBT) requirements, test methods, inspection rules, Signs, packaging, transport and storage. This standard applies to sulfur, carbon disulfide or nitrobenzene and aniline as raw material by vulcanization accelerator MBT high pressure generated by the reaction; o Nitrochlorobenzene, sodium sulfide, sulfur, carbon disulfide as raw materials in the synthesis under normal pressure vulcanization accelerator MBT. Molecular formula. C₇H₅NS

2 Structure. Molecular weight. 167.23 (according to 2011 international relative atomic mass) CASRN. 149-30-4

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 191 Packaging - Pictorial signs Preparation of

GB/T 601 chemical reagent standard titration solution

GB/T 603 chemical reagent in test methods - Preparations with

GB/T 6678-2003 General Principles for Sampling Chemical Products Laboratory use specifications and test methods GB/T 6682-2003 Analysis

GB/T 8170-2008 revised value represents about rules and limit values \u200b\u200band judgment

GB/T 11409-2008 rubber antioxidant, vulcanization accelerator Test Method

3 Requirements

Vulcanization accelerator MBT technical requirements and corresponding test methods shall comply with the requirements in Table 1.

1 vulcanization accelerator MBT technical requirements and test methods for tables

Item Index Test Method (1) the appearance of an off-white to pale yellow powder or granular visual (2) Melting point/°C ≥ 170.0 GB/T 11409-2008 of 3.1 (3) heating loss mass fraction /% $\leq$

0.30 GB/T 11409-2008 of 3.4 (4) Ash mass fraction /% $\leq$

0.30 GB/T 11409-2008 3.7 (5) sieve residue a (150 μ m) mass fraction /% $\leq$

0.10 GB/T 11409-2008 3.5 (6) mass fraction purity b /% (titration, HPLC method) $\geq$

97.0 this standard

4.7 a sieve residue does not apply to granular products. b according to user requirements for the test items.

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