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**HG**

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

**中华人民共和国化工行业标准**

HG/T 2525-2011

Replace HG/T 2525-1993

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**Insoluble sulfur for rubber**

**橡胶用不溶性硫磺**

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## Foreword

This Standard is drafted according to the rules specified in GB/T 1.1-2009.

This Standard replaces HG/T 2525-1993 – *The Insoluble Sulfur for Rubber Compared with HG/T 2525-1993*, the main technical changes are as follows in addition to editorial changes:

— It deletes the requirements on products of Model IS 70-20 and Model IS 60-33, and adds the requirements on products of Model IS-HS 70-20 and Model IS-HS 60-33 (see Chapter 3, and Chapter 4 of Edition 1993);

— It modifies the requirements of different types of products for testing items (see Chapter 3, Chapter 4 of Edition 1993)

— It modifies the indicator value of the mass fraction of residue on sieve (150 $\mu$ m) inside the insoluble sulfur for rubber (see Chapter 3, Chapter 4 of Edition 1993);

— It adds the requirements and test methods for the heat stability (105 $^{\circ}$ C) of insoluble sulfur for rubber (see Chapters 3 and 4.6).

This Standard is proposed by China Petroleum and Chemical Industry Federation.

This Standard is under the jurisdiction of Branch Technical Committee of Sulfur and Sulfuric Acid for the National Standardization Technical Committee of Chemical (SAC/TC63/SC7).

This Standard is drafted by: Research Institute of Nanjing Chemical Industry Group, Jiangxi Hengxingyuan Chemical Co., Ltd., Henan Kailun Chemical Co., Ltd., Beijing Longsheng Ronghe Chemical Co., Ltd., and Tai'an Taishan Fine Chemical Industry Corporation.

The main drafters of this Standard are: Zhang Ruai, Wang Kuiliang, Xu Yufu, An Songqu, Liu Zhaobo, Zou Wei, Feng Junting.

This Standard was firstly issued in September, 1993 and this is the first revision.

# Insoluble sulfur for rubber

**Warning**— Part of the reagents used in this Standard are toxic or corrosive, and part of the operation is dangerous. This Standard does not reveal all possible safety problems, and the user shall use it properly in strict accordance with the relevant provisions and be obliged to take appropriate safety and health measures.

## 1 Scope

This Standard specifies the requirements, test methods, inspection rules, marking, packaging, transportation, storage and safety of insoluble sulfur for rubber.

This Standard is applicable to rubber vulcanizer - Non-oil-filled and oil-filled insoluble sulfur.

## 2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this Standard.

- GB 190 Packing symbol of dangerous goods
- GB/T 191 Packaging - Pictorial marking for handling of goods
- GB/T 601 Chemical reagent--Preparations of standard volumetric solutions
- GB/T 603 Chemical reagent--Preparations of reagent solutions for use in test methods
- GB/T 6003.1 Test sieves—Technical requirements and testing—Part 1: Test sieves of metal wire cloth
- GB/T 6678 General principles for sampling chemical products
- GB/T 6679 General rules for sampling solid chemical products
- GB/T 6682 Water for analytical laboratory use - Specification and test methods
- GB/T 8170 Rules of rounding off for numerical values & expression and judgement of limiting values
- GB/T 8946 Plastic woven sack

## 3 Requirements

Insoluble sulfur for rubber is divided into two categories of non-oil-filled category and oil-filled category, and its technical indicators shall comply with the provisions in Table 1.

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