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

GB/T 7766-2008

ing GB/T 13644-1992; GB/T 13645-1992; GB/T 14836-1993; GB/T 18174-2000; GB/T 7766-2000; GB/T 9875-2001

Rubber Products -- Test methods for chemical analysis

橡胶制品 化学分析方法

(English Translation)

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Foreword

This standard ASTMD297-1993 (re-approved in 2006), "Rubber Products chemical analysis methods" (in English) for the degree of agreement Non-equivalent.

This standard replaces GB/T 13644-1992 "vulcanized rubber - Determination of magnesium content CyDTA titration method", GB/T 13645-1992 "Vulcanized rubber - Determination of calcium content EGTA titration method", GB/T 14836-1993 "Qualitative analysis of vulcanized rubber ash" GB/T 18174-2000 "Determination of silica content rubber", GB/T 7766-2000 "Determination of nitric rubber carbon black content Digestion ", GB/T 9875-2001" Identification of chemical methods "rubber polymer.

The main technical differences between standard compared with the above-mentioned six criteria are as follows.

- Added generic chemical analysis methods, including the scope (of the standard 4.1), sample preparation and test requirements (this standard 4.2), the sample Preliminary Determination (This standard is 4.3);
- Increased the determination of the content of the rubber polymer (this standard 4.4);
- Increasing the content of complexing agent method (this standard 4.5);
- Increasing the density of the analytical method (this standard 4.7);

- Increased by 8 methods of determining extractives (this standard 4.8);
- Increase the determination of three kinds of sulfur (4.9 of this standard);
- An increase of 3 fillers analytical methods (this standard 4.10);
- Increasing the analysis and determination of ash (4.11 of this standard);
- All revised test procedure.

The Standard Appendix A, Appendix B are informative appendices.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standards Commission rubber physical and chemical test methods Technical Committee (SAC/TC35/SC2) centralized.

The main drafting standard units. Beijing Rubber Industry Research and Design Institute, the Double Star Group Co., Ltd. Double Star Dongfeng Tyre Co.

the company.

1 Scope

1.1

standard specifies a method for determining the content of the rubber components and products, including the Common test methods for measuring the rubber polymer content method.

1.2

This standard applies to "R" series (see GB/T 5576) of the rubber component of qualitative and quantitative analysis. Many of which can be Analysis for natural rubber or synthetic rubber.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequently Some amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Study whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

Preparation of GB/T 601 chemical reagent standard titration solution GB/T 1232.1 - Part 1 uncured rubber measured by shearing disc viscometer. Mooney viscosity measurement (GB/T 1232.1-2000, eqv ISO 289-1:1994) GB/T 4499 vulcanized rubber anti-aging agent measured by thin layer chromatography (GB/T 4499-1997, ISO 4645. 1984, neq) GB/T 5576, and latex rubber nomenclature (GB/T 5576-1997, ISO 1629:1995, idt) GB/T 6003.1