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

GB/T 25268-2010

**Rubber -- Guide to the use of curemeter
(English Translation)**

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Foreword

This standard is identical with ISO 6502:1999 "Rubber rheometer Guide" (in English).

This standard is equivalent translation ISO 6502:1999.

For ease of use, this standard made the following editorial changes.

- a) "this International Standard" be replaced by "this standard";
- b) use a decimal point instead of a decimal comma " , " . " , " ;
- c) Remove the preface to international standards.

This standard Annex A, Annex B and Annex C is informative appendix.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the national Common test methods for rubber and rubber goods Technical Committee of Standardization Technical Committee (SAC/TC35/SC2) Centralized.

This standard was drafted. Friends of Shenzhen Electronic Instrument Co., Ltd. in Beijing, Beijing Rubber Industry Research and Design Institute.

Drafters of this standard. Li Jie.

Introduction

Currently a large number of different types of curing device is being used, than in the past and there have been major developments, in particular the non-rotor rheometer. DETAILED alone no rotor rheometer, may limit its future development, it is necessary to develop a more generic file. Therefore, the decision to provide this guide, in order to the design and use of general cure meter.

Rubber rheometer Guide Warning --- personnel should use this standard regular laboratory

work experience. This standard does not point out all possible security asked question. Users have the responsibility to take appropriate safety and health practices and to ensure compliance with the conditions relevant national regulations.

1 Scope

This standard gives the characteristics of vulcanized rubber compound was measured by rheometer guide.

2 Normative references

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

Determination of GB/T 9869 rubber vulcanization characteristics (oscillating disc rheometer method) (GB/T 9869-1997, ISO 3417:1991, IDT) GB/T 9881 Rubber Terminology (GB/T 9881-2008, ISO 1382:2008, MOD)

3 Terms and Definitions

GB/T 9881 and established the following terms and definitions apply to this standard.

Oscillating disc rheometer oscillating-discuremeter ODC the force applied to the rubber compound is produced by oscillating disc embedded in the sample, and the sample is placed in a sealed cavity pressurized sulfur Digitizer.

No rotor rheometer rotorlesscuremeter RCM Two by the vibration mode constitute one sample was placed in the cavity to produce a rheometer force exerted on the rubber compound.

NOTE: Rotorless instrument types are listed in Chapter 5, is shown in Figure 3 to 7.

Modulus increasing vulcanization marching-moduluscure at the curing temperature, modulus increased rapidly, but that is slowly and continuously into curing type reaches a maximum elevation.

Curing characteristics vulcanizationcharacteristics the vulcanization curve reflects the characteristics (see Figure 1).

Note: further instructions are given in Chapter 4.

Rigidity stiffness

It represents the modulus or resistance to general terms of stress.

Note: Because the force and torque has generally accepted scientific meaning, so no detailed explanation here.

4 Fundamentals

Mix of properties in the curing process will change, curing characteristics as a function of time and temperature by measuring the characteristics of mix