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

GB/T 24143-2009

**Rubber and rubber products -- Determination of the sensitivity
of test methods**

橡胶与橡胶制品 试验方法灵敏度的确定

(English Translation)

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References

Foreword

This standard is equivalent to international standards ISO 19004:2004 "Standard Test Method for Rubber and rubber products Sensitivity OK" (in English).

a) defining the scope of the measured properties of sensitivity (1);

b) extend the range of sensitivity (level 2).

For the extended range of sensitivity, whether absolute or relative, and there are the following two types of test sensitivity.

1) The measured value is within the range consistent or equivalent sensitivity (type 1);

2) non-uniform sensitivity, that is, within the selected range, sensitivity, size depends on the size of the measured value of property (type 2).

Appendix A is an important part of this standard, it is recommended to use a linear regression analysis to determine the sensitivity of the test, and describes how to determine the test

Sensitivity test precision.

Appendix B is an important accessory, which gives two examples of calculating the relative

sensitivity of the test.

a) define the scope of inspection or sampling test sensitivity;

b) expand the scope of non-uniform test sensitivity.

Appendix C gives background information on the scale transformation, typically used to extend the range of tests to determine the sensitivity. Also it gives a simple points

Test Methods for Chemical Analysis of the absolute sensitivity of the export process.

GB/T 24143-2009/ISO 19004:2004 Rubber and rubber products Test methods for the determination of sensitivity 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 describes how to determine the rubber and rubber products typical physical and chemical properties of the sensitivity of the test method is also applicable to carbon black filled Test methods for material properties.

Test sensitivity is defined as the test methods for measuring the basic properties of treating discrimination and expressed as the ratio of the standard deviation of measurement error, often described the "signal to noise ratio." this standard does not discuss Trace Analysis Threshold (minimum) limit of detection sensitivity.

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.

GB/T 6379 (all parts) of measurement methods and results Accuracy (trueness and precision) [ISO 5725 (all parts), IDT] GB/T 14838 Rubber and rubber products - Determination of precision for test method standards (GB/T 14838-2009, ISO/TR9272:2005, IDT)

3 Terms and Definitions

GB/T 6379 and established the following terms and definitions apply to this standard.

Note: The number of special terms or definitions that do not appear in other standards of this standard is required, in accordance with this chapter from the simple to the complex system of the

order of succession Directed. In simple terms it can be used to define more complex terms, making definitions more clear and concise. Taking into account the context of convergence to and ease of understanding, some of the key concepts of the required standard is introduced and defined in the other section bar.

Determination or evaluation of the inherent attributes (or feature) Test Method.

The use of measuring instruments to determine the properties.

In the measurement of the measured properties were selected as two or more common standard or reference test method for materials (or other substances).

Note: The expected value of each test method, which is designated the reference value, may be known (available from other sources), it may be unknown.

Was chosen as the reference standard or reference material (or other material), of a test method has the basic attributes of the complete record GB/T 24143-2009/ISO 19004:2004