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

GB/T 15338-2012

Replacing GB/T 15338-2008

Carbon black -- Validation of test method precision and bias

炭黑 试验方法精密度和偏差的确认

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 15338-2008 "Confirm black test method precision and bias", and GB/T 15338-2008 phase Ratio, the main technical changes are as follows.

- Added "or domestic standard reference carbon black (SN1)" (see Chapter 1);
- Added "This standard does not indicate that all possible security issues associated with its use" (see 1.6);
- Normative references cited in the latest version of a file (see Chapter 2);
- Increased "SRB8", "SN" (see 4.2, Note 1);
- On the version of "Table 1, Table 2 SRB6 were given, SRB7 series standard target value at the time of its actual value obtained "Modifying the edition of" Table 1 gives SRB8 standard target, Table 2 shows the SN target ", while increasing the" Table 3 Determination of the period SRBHT series standard value is fixed value "(see 4.4,2008 version 4.4);
- Increasing the black "SRBHT material is specially prepared, after years of placement showed stable iodine value. If you do not need to correct return, then use only SRBHT substance "(see 7.1);
- Increase the informative Appendix B and Appendix C.

This standard uses redrafted Law Amendment uses ASTM D4821:2007 "Standard Guide for Carbon Black test method precision and bias confirm".

This standard ASTM D4821:2007 compared to the structure have more adjustment, listed in Appendix A of this standard and ASTM D4821:2007 Number of reg control list.

This standard and ASTM D4821. Difference and technical reasons 2007 is as follows.

- Added "or domestic standard reference (SN1) to carbon black" (ASTM D4821:2007 Chapter 1, Chapter 1 of this edition);

--- Increased blurbs normative references and references to ASTM standard D1513, D3037, D3191 no correspondence of our national standards (ASTMD4821:2007 of Chapter 2, Section 2 of this edition), an increase of references GB/T 4091, to facilitate the the user uses (Chapter 2 of this edition);

--- Remove the "Table 1 SRB6 control limits" and "Table 2 SRB7 control limits," adds "Table 1 SRB8 control limits" and "Table 2 SN series of standard reference black control limits. "Currently on the market SRB6 and SRB7 series of standard reference insufficiency than carbon black and can not be large Batch Supply (ASTMD4821:2007 Table 1, Table 2, this version of Table 1, Table 2);

--- Part of the test method increases the likely cause of the test result is outside the range of statistical control to increase the operability standards (Excerpts 6.2.12, 6.4.6, 6.4.7, 6.5.6, 6.6.6);

--- Remove the test method ASTMD3037 nitrogen adsorption specific surface area may cause test results fall outside the line of control reasons. I State standard is used ASTMD6556 (ASTMD4821:2007 6.1.5);

--- Remove the "key words", according to our standard format (ASTMD4821:2007 10);

This standard also made the following editorial changes.

--- Increase the informative A "of this standard reg number and ASTMD4821:2007 reg number control" list (Appendix edition A);

--- Increase the informative Appendix B, Appendix C (Excerpts Appendix B and Appendix C).

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Rubber and rubber products Standardization Technical Committee of carbon black Technical Committee (SAC/TC35/SC5) centralized.

This standard is mainly drafted by. China Rubber Group Carbon Black Research & Design Institute.

Units involved in the drafting of this standard. Lone Star Chemical Co., Ltd., Shandong Science and Technology Co., Ltd.

1 Scope

This standard provides a standard value with ASTM standard reference carbon black (ASTM-SRBs) or domestic standard reference carbon black (SNs) even Continued step-precision test methods for monitoring carbon black. Can also be used as the test methods is to find the problems of the guide.

The standard established by X- control charts can be used to continuously test method set

out in Part 2 of the monitoring, control charts can also be used as the comparison Experimental Methods Laboratory internal calculation precision foundation.

The use of standard GB/T 4091-2001 control chart method to determine the SRBs or SNs laboratory test results and its value has been accepted is there a significant difference between.

When the laboratory can not be corrected by physical means or equipment to get SRBs SNs standard value, this standard provides a statistical square Law, to ensure the reproducibility of the method in the testing precision of the method statements within a given range.

This standard applies to the use of ASTM standard reference carbon black (ASTM-SRBs) or domestic standard reference carbon black (SNs) continuous monitoring of carbon black Precision test methods.

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 3778 carbon black for rubber GB/T 3780.1 black - Part 1. Test methods for iodine adsorption Determination of oil absorption value. GB/T 3780.2 black Part 2 GB/T 3780.4 black - Part 4. Determination of compression oil absorption value of the sample GB/T 3780.5 black - Part 5. Determination of the specific surface area CTAB method GB/T 3780.6 black - Part 6. Determination of color intensity (GB/T 3780.6-2007, ISO 5435:1994 (E), Rubbercompoundingingredients-Carbonblack-Determinationoftintingstrength, MOD) GB/T 3780.18 black - Part 18. Identification of natural rubber (NR) in GB/T 4091 conventional control charts (GB/T 4091-2001, ISO 8258:1991, IDT) GB/T 9579 Rubber compounding ingredients - Carbon black in SBR identification method (GB/T 9579-2006, ISO 3257:1992

Rubbercompoundingingredients-Carbonblack-Methodofevaluationinstyrene-butadienerub-bers, MOD) GB/T 10722 total surface area of the carbon black and the external surface area by nitrogen adsorption GB/T 14853.1 Rubber Carbon black, pelletized - Determination of pour density [GB/T 14853.1-2002, eqv ISO 1306:1995 Rubbercompoundingingredients-Carbonblack (peletized) -Determinationofpourdensity]

3 Application

3.1

led to a major cause of poor precision laboratory instruments, equipment, reagents, or lack of calibration or technical standardization. Cause every