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

GB/T 14834-2009

Replacing GB/T 14834-1993

**Rubber, vulcanized or thermoplastic -- Determination of
tendency to adhere to and corrode metals**

硫化橡胶或热塑性橡胶 与金属粘附性及对金属腐蚀作用的测定

(English Translation)

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Table of Contents

Foreword
1 Scope
2 Normative references
4 Materials
5 Test device

Foreword

This revised standard adopts ISO 6505:2005 "vulcanized rubber or thermoplastic rubber and metal to metal adhesion and corrosion testing role Fixed "(in English).

This standard replaces GB/T 14834-1993 "vulcanized rubber and metal-to-metal adhesion and corrosion effects of measurement." this standard is based on ISO 6505:2005 redrafted.

This standard and ISO 6505:2005 and the following reasons difference. instead of ISO with GB grade metal metal grades for the domestic market buy.

--- ISO 6505 standard specified in ISO 209-1 grades AlCu4SiMg condition TF aluminum, in line with GB/T 3190 in grade aluminum 2A14 solution treated and precipitation process substitute;

--- ISO 6505 standard specified in ISO 630 Fe360A carbon steel grades, in line with GB/T 700 in grades Q235A Instead of carbon steel;

--- ISO 6505 standard EN1652 stipulated in grades CuZn37 brass, in line with GB/T 5231 in grades H63 Instead of brass;

--- ISO 6505 standard EN1652 stipulated in grade Cu-ETP copper, in line with GB/T 5231 in T2 copper grades instead.

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 and GB/T 14834-1993 compared to the main changes are as follows.

--- Changing the name of the standard;

Determination of the object --- expanded from vulcanized rubber vulcanized rubber,

thermoplastic rubber;

--- Test grades from the original aluminum LY11 to 2A14 (1993 edition Chapter VI; Chapter 6 of this edition);

--- Test strip metal plate size increased (50 ± 1) mm x 100mm (Chapter 6 of this edition);

--- Rubber O-ring to increase the sample specimen (Excerpts 7.1.2, 9.5.1.2, 9.5.2.2);

--- Added two test cycles (96 ± 2) h and (120 ± 2) h (edition 8.2);

--- The test procedure is described in different test environments, respectively. (Edition 9.5);

--- Corrosion evaluation test in different environments will be described separately. (Excerpts 10.2);

--- Increase normative annex A and informative Annex B.

The standard proposed by China Petroleum and Chemical Industry Association.

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

This standard was drafted. Shanghai Institute of Rubber Products.

1 Scope

This standard specifies the vulcanized rubber or thermoplastic rubber to metal adhesion measured exposure and the role of metal corrosion in the specified test environment Setting Method.

Appendix A - based testing method involves calibration table necessary equipment.

This standard applies to general assessment of vulcanized rubber or thermoplastic rubber and metal-to-metal adhesion and corrosion.

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 700 carbon structural steel (GB/T 700-2006, ISO 630:1995, NEQ) GB/T 2941 rubber physical test method for preparing and conditioning General Procedure (GB/T 2941-2006, ISO 23529:2004, IDT) GB/T 3190 Wrought aluminum and aluminum alloy chemical composition (GB/T 3190-2008, ISO 209:2007, MOD) GB/T 5231 Wrought copper and copper alloy chemical composition and shape of the product GB/T 6003.1 woven wire mesh

test sieve (GB/T 6003.1-1997, eqvISO 3310-1.1990) GB/T 6031 vulcanized rubber or thermoplastic rubber hardness measurement (10 ~ 100IRHD) (GB/T 6031-1998, idtISO 48. 1994)

ISO 18899 rubber test equipment calibration Guidelines Principle 3 the vulcanized rubber or thermoplastic rubber samples according to a predetermined condition is sandwiched between two metal test plates, in dry or humid atmosphere through Over a certain period of time. By visual inspection to determine its degree of adhesion and corrosion on metal surfaces.

4 Materials

4.1

acetone (clean metals). AR.

4.2

Other suitable solvents (cleaning rubber). AR, rubber and should not adversely affect the test.

4.3

pumice. mesh size should be able to meet the basic dimensions GB/T 6003.1 standard prescribed for the test sieves 53μm.

4.4

distilled water or corresponding purity water.

4.5

silica gel.

5 Test device

5.1

In accordance with the general laboratory requirements, and add the following content.