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

GB/T 8034-2009

Replacing GB/T 8034-1987

**Benzol products of coal carbonization -- Corrosiveness to
copper -- Copper strip test**

焦化苯类产品铜片腐蚀的测定方法

(English Translation)

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Foreword

This revised standard adopts ISO 2160:1998 "Copper Corrosion Test Methods for Petroleum Products" (in English).

This standard is based on ISO 2160:1998 redrafted. For ease of comparison, the information in Appendix A lists the provisions of this national standard Standard Terms and international control list.

The standard in the use of international standards has been modified. The technical differences between a single vertical line identifies the page in terms of which they are involved Margin. In Appendix B gives a list of the technical differences and the reasons for the reference.

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

- "This International Standard" by "this standard";
- Instead of using the decimal point as a decimal point ", ". ";
- Delete international standards foreword.

This standard replaces GB/T 8034-1987 "Determination of coking benzene products copper corrosion." the main difference compared with the standard GB/T 8034-1987 as follows.

- Added "Warning", "range", "normative references" Content "copper Preparation";
- Some units with standardized text format.

The Standard Appendix A and Appendix B are informative appendices.

The standard proposed by China Iron and Steel Association.

This standard is under the jurisdiction of the National Steel Standardization Technical

Committee.

This standard was drafted. Wuhan University of Science and Technology, Metallurgical Industry Information Standards Institute.

1 Scope

This standard specifies the principles of copper corrosion measuring benzene products, reagents, and materials, instruments, sampling and preservation, copper preparation, test procedures, Results grading and inspection reports.

This standard applies to coking toluene coking xylene active sulfide or sulfur free determination of the extent of corrosion of copper.

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 1999 coking oil products sampling methods YB/T 2305 coking products testing Thermometers Principle 3 the polished copper immersed in a certain volume of the sample in accordance with the provisions of the time and temperature of heating. The copper is then removed, washed After shade guide is compared with the standard to determine the level of corrosion.

4.1 Aqueous solvent

2,2,4-pentane (isooctane), AR.

4.2 Polishing material

4.2.1

emery paper or emery cloth. different fineness, including grain size 65μm (240 mesh).

4.2.2

Emery. 105μm (150 mesh).

4.2.3

cotton. pharmaceutical grade.

5 Instruments

5.1

copper. purity > 99.9% copper, polished surface, hard-tempered and polished by the cold.

Dimensions. length $75\text{mm} \pm 5\text{mm}$, width of $12.5\text{mm} \pm 2\text{mm}$, thickness of $1.5\text{mm} \sim 3.0\text{mm}$.

When the copper surface pitting or deep scratches can not be polished to eliminate; copper or deformed, they should abandon.

5.2

tube. diameter 25mm, high 150mm.

5.3

constant temperature water bath. the temperature range of $50\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$, with a stirrer and a cuvette holder.

5.4

Thermometer. Temperature range $0\text{ }^{\circ}\text{C} \sim 100\text{ }^{\circ}\text{C}$, dividing the value of $1\text{ }^{\circ}\text{C}$, in line with YB/T 2305 in COK26C.

5.5

tongs. length 90mm, can grip the copper, so copper is not curling.

5.6

flat tube. high 240mm ~ 260mm, wall thickness of $0.75\text{mm} \sim 1.05\text{mm}$, pipe diameter length $15\text{mm} \sim 17\text{mm}$, width $7\text{mm} \sim 9\text{mm}$. Spout flame grilled light, no surface scratches or similar defects.

5.7

Tweezers. stainless steel or Teflon tweezers.

5.8

Corrosion standard color. copied from the metal processing, it is printed on a thin aluminum plate of four-color processing. It lost by the representative