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

GB/T 8660-2018

Replacing GB/T 8660-2008

**Solution polymerized butadiene rubber (BR) -- Evaluation
procedures**

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Foreword

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

This standard replaces GB/T 8660-2008 "solution polymerization type butadiene rubber (BR) evaluation method", and GB/T 8660-2008

The main technical changes are as follows.

- Revised the normative reference document (see Chapter 2, Chapter 2 of the.2008 edition);
- Modified the mixing formula of oil-filled rubber (see Table 1, Table 1 of the.2008 edition);
- Modified the contents of footnote c in Table 1 (see Table 1, Table 1 of the.2008 edition);
- Added the expression "Recommended to use the mixer mixing method" (see 5.2.2.1);
- Increased one-step mixing of the mixer (see 5.2.2.2);
- Revised the requirements of the test report (see Chapter 10, Chapter 10 of the.2008 edition).

This standard uses the redrafting method to modify the ISO 2476.2014 "butadiene rubber (BR) solution polymerization type evaluation method."

The technical differences between this standard and ISO 2476.2014 and their reasons are as follows.

---About the normative reference documents, this standard has made technical adjustments to adapt to China's technical conditions, adjustments

The situation is reflected in Chapter 2, "Regulatory Citations", and the specific adjustments are as follows.

* Replace ISO 37 with GB/T 528 equivalent to the international standard;

- * Replace ISO 289-1 with GB/T 1232.1 equivalent to the international standard;
- * Replace ISO 23529 with GB/T 2941 equivalent to the international standard;
- * Replaced ISO 247.2006 with GB/T 4498.1 modified to adopt international standards;
- * Replaced ISO 2393 with GB/T 6038, which modified the international standard;
- * Replace ISO 3417 with GB/T 9869 equivalent to the international standard;
- * Replace ISO 1795 with GB/T 15340 equivalent to the international standard;
- * Replace ISO 248-1 with GB/T 24131.1 modified to adopt international standards;
- * Replace ISO 248-2 with GB/T 24131.2 modified to international standards;
- * Replace ISO 6502 with GB/T 25268 equivalent to the international standard;
- * Added GB/T 21184.

--- Modified the footnotes in Table 1 to meet user needs.

This standard has made the following editorial changes.

--- Change the standard name to "solution polymerization type butadiene rubber (BR) evaluation method".

This standard was proposed by the China Petroleum and Chemical Industry Federation.

This standard is under the jurisdiction of the National Rubber and Rubber Products Standardization Technical Committee (SAC/TC35).

This standard is mainly drafted by. China Petroleum & Chemical Corporation Beijing Yanshan Branch, China National Petroleum Corporation

Petrochemical Research Institute.

1 Scope

This standard specifies the physical and chemical test methods for solution-polymerized butadiene rubber (BR) raw rubber;

Standard materials, standard test formulations, equipment, methods of operation and evaluation of diene rubber (BR) [including oil-filled (OEBR)] vulcanization characteristics

A method of tensile stress-strain properties of a vulcanized rubber.

This standard applies to the evaluation of solution polymerization type butadiene rubber (BR).

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 528 Determination of tensile stress-strain properties of vulcanized rubber or thermoplastic rubber (GB/T 528-2009, ISO 37.2005,

IDT)

GB/T 1232.1 Determination of non-vulcanized rubber - Part 1 . Determination of Mooney viscosity

(GB/T 1232.1-2016, ISO 289-1..2014, IDT)

GB/T 2941 Rubber physical test method General procedure for preparation and adjustment of specimens (GB/T 2941-2006, ISO 23529.2004,

IDT)

GB/T 4498.1 Determination of rubber ash - Part 1 . Muffle furnace method (GB/T 4498.1-2013, ISO 247.2006,

MOD)

GB/T 6038 rubber test compound compounding, mixing and vulcanization equipment and operating procedures (GB/T 6038-2006, ISO 2393.

1994, MOD)

GB/T 9869 Determination of vulcanization properties of rubber compounds - Disk oscillating s. - GB/T 9869-2014, ISO 3417.

2008, IDT)

GB/T 15340 Natural and synthetic raw rubber sampling and its sample preparation method (GB/T 15340-2008, ISO 1795.2000, IDT)

GB/T 21184 rubber compounding agent sulfenamide accelerator test method (GB/T 21184-2007, ISO 11235.1999,

NEQ)

GB/T 24131.1 Determination of volatile content of raw rubber - Part 1 . Hot roll method and oven method (GB/T 24131.1-2018,

ISO 248-1.2011, MOD)

GB/T 24131.2 Determination of volatile content of raw rubber - Part 2. Automatic analyzer heat loss with infrared drying unit

Heavy method (GB/T 24131.2-2017, ISO 248-2.2012, MOD)

GB/T 25268 Rubber Vulcanizer User Guide (GB/T 25268-2010, ISO 6502.1999, IDT)

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