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

GB/T 33097-2025

Replacing GB/T 33097-2016

Elastic insulating suspension components

弹性绝缘悬挂组件

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Standardization Administration of the PRC**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 33097-2016 "Elastic Insulated Suspension Assembly". Compared with GB/T 33097-2016, the main differences are in structural adjustments and... Aside from editorial changes, the main technical changes are as follows:

- a) The requirements for component machining accuracy have been removed (see 4.1.1 in the 2016 version);
- b) Increased requirements for the appearance and structure of conductive pads (see 5.1.2.3);
- c) The material requirements for nuts and washers have been removed (see 4.1.3.1 in the 2016 version);
- d) The requirements for the insulating core rod material have been changed (see 5.1.3.2, 4.1.3.2 of the 2016 version);
- e) The material requirements for rubber elastomers and insulating skirts have been changed (see Table 1, Tables 2 and 3 in the 2016 edition);
- f) The mating dimensions of the suspension components have been changed (see Table 3, Table 4 in the 2016 edition);
- g) The mechanical performance requirements for the suspension components have been changed (see Table 4, Table 5 in the 2016 edition);
- h) The creepage distance specifications for electrical performance have been changed (see Table 5, Table 6 in the 2016 edition);

i) The test methods for the machining accuracy of parts, nuts, and washers have been removed (see

1 Scope

GB/T 33097-2025 is the Chinese national standard covering the elastic insulating hanger - the component that carries a pipe or a cable while breaking the electrical path and damping the vibration, with its load rating, its insulation resistance and its ageing. It replaces GB/T 33097-2016. It was issued on 2 December 2025 and has been in force since 1 July 2026, replacing GB/T 33097-2016. The document is under the responsibility of the China Petroleum and Chemical Industry Federation. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Packaging and Storage Graphic Symbols

GB/T 528 Determination of tensile stress-strain properties of vulcanized rubber or thermoplastic rubber

GB/T 1040.2 Determination of tensile properties of plastics - Part

GB/T 1682-2014 Determination of Low-Temperature Brittleness of Vulcanized Rubber - Single Sample Method

GB/T 1804-2000 General tolerances - Tolerances for linear and angular dimensions without specified tolerances

GB/T 2100 General purpose corrosion-resistant steel castings

GB/T 3098.6 Mechanical properties of fasteners - Stainless steel bolts, screws and studs

GB/T 3512 Accelerated aging and heat resistance test of vulcanized rubber or thermoplastic rubber in hot air

GB/T 3960 Test Method for Sliding Friction and Wear of Plastics

GB/T 7759.1 Determination of compression set of vulcanized or thermoplastic rubber - Part