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

GB/T 14820.1-1993

Replacing GB/T 14820.1-1993; GB/T 14820.2-1993; GB/T 14820.3-1993

**High-voltage ignition wires for road vehicles
(English Translation)**

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Foreword

This standard is equivalent to using ISO 3808:2002 "Road vehicles - unshielded high voltage ignition cables - General requirements, test methods and requirements" First Edition (in English).

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

- Remove the ISO 3808:2002 Introduction;
- Chapter 2 using key words applicable to our standards, deleted ISO 3808:2002 introductory phrase;
- Chapter 2 normative references in ISO 1817:1999 is amended as ISO 1817:2005;
- Increase the informative Appendix B "product type and mark." this standard replaces GB/T 14820.1-1993 "High tension ignition wires for road vehicle - Part 1. General requirements" GB/T 14820.2-1993 "High tension ignition wires for road vehicle - Part 2. Copper core high-voltage ignition wire" and GB/T 14820.3-1993 "High tension ignition wires for road vehicle - Part 3. Damping conductor high tension ignition wires." this standard and GB/T 14820.1-1993, GB/T 14820.2-1993 and GB/T 14820.3-1993 compared to major change of the following.
- The GB/T 14820.1-1993, GB/T 14820.2-1993 and GB/T 14820.3-1993 in 70 °C, 105 °C resistance Hot product contents are expressed as thermal overload test temperature of 105 °C, 120 °C of product content;
- Increases the thermal overload test temperature of 155 °C, 180 °C, 220 °C, 250 °C four product level content;
- Remove the No. 20 oil content (GB/T 14820.1-1993 in 5.7.2);
- Increased the capacitance requirements (this standard 4.6);

- Increased resistance to brake fluid test content (This standard 4.15.4);
- Increasing the resistance to the anti-freezing agent test content (This standard 4.15.5).

Appendix A of this standard is a normative appendix, Appendix B is an informative annex.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the national wire and cable Standardization Technical Committee (SAC/TC213) centralized.

1 Scope

This standard specifies the road vehicles in spark ignition engines with high voltage ignition wires unshielded level, type, dimensions, test methods and requirements.

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.

ISO 1817:2005 Test methods for liquid-resistant vulcanized rubber ISO 4926. 1978 Road vehicles - Hydraulic brake systems - Non-petroleum base reference brake fluid

3 High voltage ignition wires of the general provisions

Grade 3.1 high voltage ignition wires the thermal overload test (see 4.9) test temperature, high voltage ignition wires are divided into six levels (Table 1).

Table 1 high-voltage ignition wire grades and thermal overload test temperature

Wire Level A B C D E F Thermal overload test temperature ± 2 105 120,155,180,220,250

3.2 High-voltage ignition wire type

Depending on the type of high-voltage ignition wire conductor is used, see Table 2.

Note: See Appendix B.

Table 2 Type of high voltage ignition wires

Wire type conductor

A stranded copper conductor

2 Other metal conductor stranded 3A 3B Resistive

4 Reactor type

3.3 high-voltage ignition wire outer diameter the outer diameter of the finished wire as follows.

--- $(5 + 0.3 - 0)$ mm;

--- (7 ± 0.3) mm, or;

--- (8 ± 0.3) mm.

4 Tests and requirements

4.1 Test conditions

Unless otherwise specified.

GB/T 14820-2009/ISO 3808:2002