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Marks for recoverability of automobile parts

汽车部件可回收利用性标识

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Foreword

This Standard is drafted according to the rules given in GB/T 1.1-2009.

This Standard shall be under the jurisdiction of National Technical Committee of Auto Standardization (SAC/TC 114).

The drafting organizations of this Standard: China Automotive Technology & Research Center, Automobile Engineering Research Institute of Nanjing Automobile (Group) Corporation, Technology Center of China FAW Group Corporation, Pan Asia Technical Automotive Center Co., Ltd.

The main drafters of this Standard: Liu Xianghai, Bao Xuepeng, Zhang Chunrong, Guo Miao, Chen Liping, Xu Dawei, Zhang Rong.

Marks for recoverability of automobile parts

1 Scope

This Standard specifies the requirements of marks for recoverability of automobile parts.

This Standard is applicable to metallic parts, plastic parts with mass greater than 100g, rubber parts with mass greater than 200g, thermoplastic elastomer, composite material parts and other non-metallic material parts used in automobile. For the parts with mass lower than the value specified in this Standard, this Standard can be used as a reference.

2 Normative references

The following documents are indispensable for application of this document. For the dated documents so quoted, only the dated versions apply to this document. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 2035 Terms and definitions for plastics (GB/T 2035-2008, ISO 472:1999, IDT)

GB/T 20861 Terminology of waste product recovery

GB/T 26989 Automobile recovery-Terminology

QC/T 797 Material identification & marking of automotive plastic rubber & thermoplastic elastomer parts

3 Terms and definitions

The following terms and definitions AND those specified in GB/T 2035, GB/T20861, GB/T 26989 and QC/T 797 are applicable to this Standard.

3.1

metallic materials

The general name for the materials which consist of metallic elements or mainly consist of metallic elements and have metal properties, including ferrous metals and non-ferrous metals. It can be summarized as the following categories: ferrous metals such as steel and iron (e.g. carbon steel, alloy steel, cast steel, cast iron and iron-based powder metallurgy material), non-ferrous such as light metal (e.g. aluminum, magnesium and their

name shall be labeled under the graphic symbol. When part consists of many materials through pasting, inlaying etc., the symbol, words or acronym shall be separated with "," among them and be written in sequence from surface to base material; there shall be beginning and ending signs of ">" and "<" at the two ends of annotation.

4.2.2.2 Normative words, numbers and letters shall be used for materials mark.

4.2.2.3 Symbols or acronyms in international standards, national standards or professional standards are permitted to be used in this Standard.

4.2.2.4 Mark of materials of plastic parts, rubber parts and thermoplastic elastomer parts is annotated according to stipulations of QC/T 797 etc. Mark of materials of other non-metallic parts can be annotated in accordance with relevant stipulations according to actual situations.

4.3 Position and dimension of marks

Marks shall be located at position convenient for reading after the part is dismantled; the position of marks must not affect the use of part and normal function of part. Marks shall be ensured not to be damaged after part maintenance; the marks on replacing part shall be intact when replacement is carried out.

If marks cannot be annotated on parts due to irregular shape of parts or restriction of function, it shall be explained in the manufacturers' public technical documents of products.

4.3.2 Dimension of marks

Proper specification shall be selected for marks according to size of parts. If marks are required to be shrunk or enlarged, then proportional shrinking and enlarging shall be carried out; the area shall be no lower than 25mm²; the height of words, numbers and letters used in marks shall be no lower than 2mm.

4.4 Marking methods

Marks shall be clear and visible, and convenient for recognition. Marks shall be firm and difficult to be replaced. Any of the following methods can be used for marking:

- a) Mold-molding;
- b) Thermoprinting or stamping;
- c) Spraying or printing;
- d) Etching;
- e) Laser printing;

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Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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