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CHEMICAL INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HG/T 2196-2004

Standard classification system for rubber products in automotive application

汽车用橡胶材料分类系统

(English Translation)

Issued on: December 14, 2004

Issued by: Ministry of Industry and Information Technology of the People's Republic of China

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1 Foreword

HG/T 2196-2004 was issued by Ministry of Industry and Information Technology of the People's Republic of China on 14 December 2004.

It replaces the earlier edition HG/T 2196-1991.

The HG/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

2 Scope Preview

1.1 This classification system tabulates the properties of vulcanized rubber materials (natural rubber, reclaimed rubber, synthetic rubbers, alone or in combination) that are intended for, but not limited to, use in rubber products for automotive applications. Note: This classification system may serve many of the needs of other industries in much the same manner as SAE numbered steels. It must be remembered, however, that this system is subject to revision when required by automotive needs. It is recommended that the latest revision always be used. 1.2 This classification system is based on the premise that the properties of all rubber products can be arranged into characteristic material designations.

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These designations are determined by types, based on resistance to heat aging, and classes, based on resistance to swelling in oil. Basic levels are thus established which, together with values describing additional requirements, permit complete description of the quality of all elastomeric materials. 1.3 In all cases where the provisions of this classification system would conflict with those of the detailed specifications for a particular product, the latter shall take precedence. Note: When the rubber product is to be used for purposes where the requirements are too specific to be completely prescribed by this classification system, it is necessary for the purchaser to consult the supplier in advance, to establish the appropriate properties, test methods, and specification test limits.

HG/T 2196-2004 carries no ICS number and no Chinese Standard Classification code.

This catalogue holds 6,683 other HG/T standards.

Of the 2,593 HG/T standards that do carry an ICS number, 1,629 (63%) fall under ICS 71, in the field of chemical technology.

3 Normative references

GB/T 528 - Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties (eqv ISO 37)

GB/T 529 - Rubber vulcanized or thermoplastic - Determination of tear strength (trouser, angle and crescent test pieces) (eqv ISO 34)

GB/T 531 - Rubber - Determination of indentation hardness by means of pocket hardness meters (idt ISO 7619:1986)

GB/T 1687 - Rubber, vulcanized - Determination of temperature rise and resistance to fatigue in flexometer testing - Part 2: Compression flexometer (neq ISO 4666/3)

GB/T 1690 - Rubber, vulcanized - Determination of the effect of liquids (neq ISO 1817)

GB/T 2941 - Rubber - Standard temperatures, humidities and times for the conditioning environmental and testing of test pieces (eqv ISO 471)

GB/T 3512 - Rubber, vulcanized or thermoplastic - Accelerated ageing and heat resistance tests - Air-oven method (eqv ISO 188)

GB/T 6036 - Rubber, vulcanized or thermoplastic - Determination of low temperature stiffening (Gehman test) (eqv ISO 1432)

GB/T 7042 - Rubber properties determination in compression or shear (Yerzley mechanical oscillograph) (eqv ASTM D 945)

GB/T 7757 - Rubber, vulcanized or thermoplastic - Determination of compression stress-strain properties (eqv ISO 7743)

GB/T 7758 - Rubber, vulcanized - Determination of low-temperature characteristics -

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Temperature-retraction procedure (TR test) (eqv ISO 2921)

GB/T 7759 - Rubber, vulcanized or thermoplastic - Determination of compression set at ambient, elevated or low temperatures (eqv ISO 815)

GB/T 7760 - Rubber vulcanized - Determination of adhesion to metal - One-plate method (eqv ISO 813)

GB/T 9865.1 - Rubber, vulcanized or thermoplastic - Preparation of samples and test pieces - Part 1: Physical tests (idt ISO 4661-1)

4 About this standard

Sector: Chemical Industry

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English translation: about 15 pages (approximate)

5 Related standards

Other editions:

HG/T 2196-2026 (later edition)

HG/T 2196-1991 (earlier edition)

6 Classification and status

Chinese Standard Classification (CCS): G 40

Prefix HG/T: recommended standard.

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