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CHEMICAL INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HG/T 3089-2001

Rubber mixture of O-ring seals for fuel (English Translation)

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Foreword

This Standard is drafted through the revision of the recommended chemical industry standard HG/T 3089-1987 Rubber Mixture of O-ring Seals for Fuel. The main differences between this Standard and HG/T 3089-1987(1997) are as follows.

- Remove "Manufactured by nitrile rubber" in the scope.
- For compressive set test method, adopt GB/T 7759-1996 Rubber, Vulcanized or thermoplastic-Determination of compression set at ambient elevated or low temperatures. And appropriately adjust the indicators.

This Standard shall replace HG/T 3089-1987 from the implementation date.

This Standard was proposed by State Bureau of Petroleum and Chemical Industry.

This Standard shall be under the jurisdiction of Technical Committee for Seal Products,

National Technical Committee for the Standardization of Rubber and Rubber Products.

Responsible drafting organizations of this Standard. Northwest Rubber & Plastics Institute, and Chongqing Changjiang Rubber Plant and Liaoning Tieling Research & Design Institute of Rubber Industry.

Main drafters of this Standard. Cao Yuanli, Cao Xiaofeng, and Dai Yanfen.

This Standard was published for the first-time as the national standard GB 7527-1987 in

1987 In 1997, it was adjusted to be the recommended chemical industry standard and

was renumbered as HG/T 3089-1987.

Rubber mixture of O-ring seals for fuel

Replacing HG/T 3089-1987(1997)

1 Scope

This Standard specifies the requirements, sampling, test methods and the marking, labeling, packaging, and storage of O-ring rubber seal materials for petroleum-based fuel system.

This Standard applies to O-ring rubber seal materials used for petroleum-based fuel system under -40~100°C.

2 Normative references

The articles contained in the following documents have become part of this Standard when they are quoted herein. For the dated documents so quoted, all the modifications or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 528-1998 Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties (eqv ISO 37.1994)

GB/T 531-1999 Rubber - Determination of indentation hardness by means of pocket hardness meters (idt ISO 7619.1986)

GB/T 1682-1994 Rubber, vulcanized - Determination of low-temperature brittleness (single test piece method)

GB/T 1690-1992 Rubber, vulcanized - Determination of the effect of liquids (neq ISO 1817.1985)

GB/T 3512-1989 Rubber vulcanized - Accelerated ageing or heat-resistance test - Air-oven method (neq ISO 188-1985)

GB/T 7535-1996 Rubber, vulcanized - Classification - Description of the classification

system (eqv ISO 4632-1.1982)

GB/T 7759-1996 Rubber, Vulcanized or thermoplastic - Determination of compression set at ambient elevated or low temperatures (eqv ISO 815.1991)

6.2 Each inner package shall be attached with a label, indicating the standard number,

material code, manufacturing date, conditions of vulcanization, quantity, conforming mark and manufacturer's name, etc.

6.3 The materials that will not damage and pollute the rubber material shall be adopted for

packaging. And then it is loaded into the packing box. Each box shall not be more than 50kg.

6.4 Rubber materials shall be stored under the environment with temperature of 0~28°C.

The relative humidity is not greater than 80%. The distance from the heat source is not smaller than 1m.

6.5 During the storage of rubber materials, they shall not contact with acid, alkali, oil and

organic solvent. They shall avoid sunlight, electric arc, ultraviolet rays and other rays.

6.6 Under the above mentioned storage conditions, storage period of rubber materials is 3

months. For rubber materials exceeding the storage period, it shall be inspected thoroughly according to the provisions shown in Table 1. They can be used after the qualification.

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