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

**GB/T 7127.1-2000**

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**Brake hose assemblies for hydraulic braking systems of road  
vehicles used with non-petroleum-base brake fluid**

**(English Translation)**

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### Foreword

This standard equivalently adopts the international standard ISO 3996:1995 "Brake hose assemblies for hydraulic braking systems of road vehicles used with non-petroleum-base brake fluid", which is a revision of GB 7127-1986 "Rubber hose for automotive hydraulic brake system".

The main differences between this standard and GB 7127-1986 are as follows:

- CHANGE the scope of application, expanding from use for automobiles to use for road vehicles (including automobiles, cars, motorcycles, etc.);
- SPECIFY the performance requirements, test procedures, markings, for hydraulic brake hose assemblies, which have a nominal inner diameter of

#### **3.2 mm and 4.8 mm;**

- SPECIFY the structure of the hose in detail; there is no separate requirement on the pipe joints, which is classified as hose assemblies;
- CLARIFY the definitions for brake hose assemblies, brake hoses, etc.;
- DELETE the drawing of the tensile test of the automobile hydraulic brake hose;
- In the high-temperature impulse strength test, in addition that, the brake

hose assembly shall be free from leakage, after being kept under a pressure of 27.6 MPa, for 2 minutes, ADD that "no burst under a pressure lower than 34.5 MPa"; ADD the high-temperature impulse strength test: at least 150 impulse tests under the pressure of 11 MPa + 0.50 MPa, at a temperature of 143 °C ± 3 °C;

- ADD dynamic ozone resistance test.

This standard replaces GB 7127-1986, from the date of implementation.

This standard was proposed by the former Ministry of Chemical Industry of the People's Republic of China.

This standard shall be under the jurisdiction of the Hoses Subcommittee of the National Rubber and Rubber Products Standardization Technical Committee.

The responsible drafting organizations of this standard: Shenyang Rubber Research and Design Institute.

The participated drafting organizations of this standard: Nanjing 7425 Factory, Shanghai Rubber Factory, Taizhou Rubber Factory Changli Resin Tube Factory, Changchun Automobile Research Institute.

Brake hose assemblies for hydraulic braking systems  
of road vehicles used with non-petroleum-base brake  
fluid

## 1 Scope

This standard specifies the performance requirements, test procedures, markings for hydraulic brake hose assemblies, which have a nominal inner diameter of 3.2 mm and 4.8 mm, for the hydraulic brake system of road vehicles.

This standard applies to the hoses, which are made of cord reinforcement layers and synthetic elastomers, AND the hydraulic brake hose assemblies, which are equipped with metal pipe joints, that use the non-petroleum-based brake fluids which meet the requirements of GB 12981.

## 2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. At the time of publication, the editions indicated were valid. All standards will be revised, and all parties using this standard shall explore the possibility of using the latest version of the following standards.

GB/T 7129-1986 Determination of volumetric expansion of rubber hose for automotive hydraulic brake system (neq ISO 3996:1978)

GB 12981-1991 Synthetic brake fluid HZY2, HZY3, HZY4 (neq ISO 4925:1978)

ISO 4926:1978 Road vehicles - Hydraulic brake systems - Non-petroleum base reference fluids

ISO 7500-1:1986 Metallic materials - Verification of static uniaxial testing machines - Part 1: Tensile testing machines

ISO 9227:1990 Corrosion tests in artificial atmospheres - Salt spray tests

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