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**Structure, Performance Requirements and Test Methods**  
**of Brake Hose**  
**制动软管的结构、性能要求及试验方法**

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# Structure, Performance Requirements and Test Methods of Brake Hose

## 1 Scope

This document specifies the structure, performance requirements, test methods and labeling of the brake hoses, brake hose end fittings and brake hose assemblies intended for motor vehicles, motorcycles, mopeds and trailers.

This document is applicable to the hydraulic, pneumatic and vacuum brake hoses, brake hose end fittings and brake hose assemblies intended for motor vehicles, motorcycles, mopeds and trailers.

This document is not applicable to the spiral hoses or high-temperature gas transmission rubber hose intended for motor vehicles.

## 2 Normative References

The following documents contain provisions which, through reference in this text, constitute essential provisions of this document. For dated references, only the editions cited apply. For undated references, the latest editions of the normative document (including any amendments) apply.

GB/T 1690-2010 Rubber, vulcanized or thermoplastic - Determination of the effect of liquids

GB/T 7129-2001 Rubber or Plastics Hoses - Determination of Volumetric Expansion

GB/T 10125-2021 Corrosion tests in artificial atmospheres - Salt spray tests

GB 12981-2012 Motor Vehicle Brake Fluids

GB/T 14905-2020 Rubber and plastics hoses-Determination of adhesion between components

## 3 Terms and Definitions

For the purpose of this document, the following terms and definitions apply.

### 3.1 *Brake hose*

A flexible conduit for use in a brake system to transmit the fluid or air energy to the brake or booster

### 3.2 *Brake hose end fitting*

A coupler, other than a clamp, designed for attachment to the end of a brake hose

### 3.3 *Brake hose assembly*

A brake hose equipped with end fittings

Note: Brake hose may be provided with or without armor.

### 3.4 *Armor*

A protective device installed outside a brake hose to increase the resistance of the brake hose to abrasion or impact damage

### 3.5 *Free length*

The straight-line length of a brake hose exposed between the end fittings when the brake hose assembly is in a vertical position

### 3.6 *Nominal inside diameter*

A dimensional description for inside diameter of brake hose, expressed in millimeters (mm)



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