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

**GB/T 24126-2009**

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**Rubber and plastics hoses and hose assemblies -- Guide for  
use by purchasers, assemblers, installers and operating  
personnel**

橡胶和塑料软管及软管组合件 采购者、组装者、安装者和操作者使用指南  
**(English Translation)**

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## Table of Contents

|                                                             |
|-------------------------------------------------------------|
| Preface                                                     |
| Introduction                                                |
| 1 Scope                                                     |
| 2 Terms and definitions                                     |
| General Hose 3                                              |
| 4 Rubber hoses                                              |
| 5 Plastic hose                                              |
| 6 Rubber and plastic hoses and hose assemblies applications |
| 7 Joint                                                     |
| References                                                  |

## Foreword

This standard is identical with ISO/T R17784.2003 "Rubber and plastic hoses and hose assemblies purchasers, assemblers, installers and the operator Guide "(in English).

This standard is equivalent translation ISO/T R17784.2003.

Consider China's national conditions, this standard the following modifications.

- The unit bar to switch to China's legal units of measurement MPa;
- The standard reference with existing national standards to replace the relevant international standards;
- Use the "standard" word instead of "this International Standard";
- The standard punctuation use Chinese punctuation;
- Deleted international standards foreword.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Rubber and rubber products hose Standardization Technical Committee Technical Committee (SAC/TC35/SC1) centralized.

This standard was drafted. Shenyang Rubber Research and Design Institute, Shenyang fourth rubber (plant) Limited.

## Introduction

Hose is connected to a connection point for a rigid or rigid connection between the two points can not place or need Flexing place to Transport all kinds of media. For example. to attract hose and pressure hose, Suction hose, and connected to the mobile device and vibrations between the two parts tube. Hose is used to transport all kinds of media, and generally work under pressure given system. In addition, the hose is also used frequently even those Rigid tube connected at one end or both ends of the local problems. Users often require hoses suppliers, can create some special hoses for their applications.

A hose supplier or manufacturer only if he fully understood the specified operating environment, it may put forward the best proposals. That is to say, in in practice due to lack of understanding may give the wrong advice, resulting in the supply and installation of the hose can not meet the intended purpose. So users and Hose close communication between manufacturers is necessary. The main effect of this standard is to provide information resources for help in making decisions.

GB/T 24126-2009/ISO/TR17784:2003 Rubber and plastic hoses and hose assemblies  
Buyers, assemblers, installers and operators Guide

## 1 Scope

This standard provides comprehensive information on the performance of its practical application of rubber and plastic hoses. Comprising a hose used in the performance of the material, the reservoir Precautions should be taken to keep the hose, the hose assembly and installation as well as matters should pay attention to their joints. Also provides a hose during the test when security measures. This standard is scheduled to provide system designers, buyers, assemblers, installers and operators to improve the use of hose and hose assemblies of operational safety.

**Note:** metal hose is not included in this standard. The circumstances of the metal hose can be found in the following standards. GB/T 18615, GB/T 18616, ISO 8444, ISO 8445, ISO 8446, ISO 8447, ISO 8448, ISO 8449, ISO 8450 and ISO 10380.

In practice, this standard can not cover all situations, so most of its content with examples. And hoped that these examples will on a range of different actual provide sufficient information.

## 2 Terms and definitions

GB/T 7528-2002 established terms and definitions apply to this standard.

### 3.1.1 Overview

Choose another type of hose to first principles.

- Hose liner layer and an outer coating that will be in contact with the medium (air, oil, water, steam and chemicals) and (or) external influences (stink Oxygen, ultraviolet radiation and climate) tolerance;
- The maximum working pressure, including all peak pressure;
- During operation can reach the maximum temperature and minimum temperature;
- Working conditions, such as. static, dynamic, ship to shore, dragging the ground;
- Hazard type of media;
- The required service life.

Most manufacturers hose attached to a "medium resistance breakdown" in its hose materials, indicating that the hose material which is resistant to the media. need Remember that this breakdown relates only to the specific material used by the manufacturer, these manufacturers used by the name of the collection represented with their products square. Permits specific temperature and pressure and temperature dependence - pressure diagrams readily available, and these charts sometimes fairly comprehensive, but still not enough.

Hoses should not be used outside the manufacturer's recommended temperature range.

The correct choice of materials, should provide the hose must meet all the requirements of the hose suppliers, including chemical, physical and mechanical requirements. not Standard procurement hose can only be used for the manufacturer's recommendations in detail media. If you have any questions, such as some kind of hose for a particular purpose Applicability, they should seek advice from the manufacturer.

3.1.2 The maximum working pressure, test pressure and minimum burst pressure Hose manufacturer hose on the maximum working pressure, test pressure and burst pressure (burst pressure than the pressure on the work of the Senate to be See GB/T 9574-2001) information. Users rated system pressure and pressure information.

By convention, the working pressure of the hose selection should be greater than the rated pressure of the user's system.

**Note:** Sometimes the pressure is divided into three levels, namely. "Low", "Medium Voltage" and "high." However, the manufacturer does not use these hoses pressure classification, but should not make in these terms, as national or international standards did not mention these terms.

GB/T 24126-2009/ISO/TR17784:2003