

ICS 75.180.10; 83.140.40
CCS G 42



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

GB/T 24145-2009

**Rubber hoses and hose assemblies for rotary drilling and
vibration application -- Specification**

旋转钻探和减震用橡胶软管和软管组合件 规范

(English Translation)

Issued on: June 15, 2009

Implemented on: February 1, 2010

Issued by: Standardization Administration of China

Table of Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and Definitions

Foreword

This revised standard adopts ISO 6807:2003 "rotary drilling and vibration Rubber hoses and hose assemblies norms" (in English).

This standard is based on ISO 6807:2003 redrafted.

This standard and ISO 6807:2003 in terms of the change as follows.

5.2 The content of international standards is further subdivided into 5.2.1 - 5.2.4; 6.1 the content of international standards for the subdivision 6.1.1 and 6.1.2, 6.1.3 and 6.1.4 and adds content; increase i) items in 9.1.

This standard and ISO 6807:2003 technical differences and their causes in Appendix A has been described.

For ease of use, this standard also made the following editorial changes.

- a) "this International Standard" be replaced by "this standard";
- b) use a decimal point instead of a decimal comma " , " . " , " ;
- c) the international standard working pressure "bar" to "MPa", 1bar = 0.1MPa;
- d) Remove the preface to international standards;
- e) due to this standard reference GB/T 262-1998 "Petroleum products - Determination of aniline point" in the standard are not normative requirements, but funding Quoted material, so as a reference in the text column.

The standard of Appendices B and C are normative appendices, Appendix A and Appendix D is an informative annex.

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. Laizhou Rubber Factory, Qingdao six rubber Hose Co., Ltd., Hebei Eurasian special Hose Co., Ltd., Guangdong Province Yanda Rubber Products Factory, Shandong Longkou Special Rubber Hose Co., Ltd.

Introduction

In geology and oil drilling in the rotation, through a high pressure fluid mud mass transport to the drill bit, and the use of rotary drilling hoses Hose assemblies used as a flexible joint in the slurry pipeline transportation.

Rotary drilling hose between the swivel and the top riser up and down operation. Marine mud delivery hose for use in offshore drilling barges and flat High pressure slurry transportation between Taiwan, the length is typically greater than 13.5m.

Damping hose shorter (9m or less), with the pump and drilling rigs that is, between the riser manifold to accommodate different axial and vibration isolation.

On the title of the product, the country used to be called "rotary drilling equipment hose", "drilling hose." Internationally, the American Petroleum Associations will be referred to the mud (this standard class A, B, C grade, D and E-class) and cement pipes (F level, G-level), belong to this Standard range.

Rotary drilling and damping rubber hoses and hose Assembly specification Warning --- the use of this standard should be familiar with normal laboratory procedures. This standard is not intended to involve the use of this standard may be out all of the current security problems. Develop appropriate safety and health system and to ensure compliance with national regulations is the responsibility of the user.

1 Scope

The standard provides for delivery of water-based and (or) oil-based muds textile and wire (rope) reinforced rubber hoses and hose assemblies Requirements, mud maximum temperature of 82 °C, when large-capacity high-pressure pump delivery in a rotary drilling facilities, mud press GB/T 262 minimum test Aniline point of 66 °C.

This standard applies (except that need to be changed according to the buyer by the additional requirements) at ambient temperature of -20 °C ~ + 52 °C between Use of anti-aging and heat conditions with a hose.

This standard does not apply to reservations for the gas hose.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to

the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 528 vulcanized rubber or thermoplastic rubber tensile stress strain properties (GB/T 528-2009, ISO 37:2005, IDT) GB/T 1690-1992 Test method for liquid-resistant vulcanized rubber (neqISO 1817. 1985) GB/T 3512 vulcanized rubber or thermoplastic rubber hot air and heat accelerated aging test (GB/T 3512-2001, eqv ISO 188:1998) GB/T 5563-2006 Rubber and plastic hoses and hose assemblies - Hydrostatic testing (ISO 1402:1994, IDT) GB/T 5565-2006 rubber or plastic hose reinforced and non-reinforced hose bending test (ISO 1746:1998, IDT) GB/T 5567-2006 Rubber and plastic hoses and hose assemblies - Determination of resistance to suction flat performance (ISO 7233:1991, IDT) GB/T 7528 Rubber and plastics hoses and hose assemblies term (GB/T 7528-2002, ISO 8330:1998, MOD) GB/T 7762 vulcanized rubber or thermoplastic rubber resistant to ozone cracking static tensile test (GB/T 7762-2003, ISO 1431-1. 1989, MOD) GB/T 9253.2 Oil and Gas Industry casing, tubing and line pipe threads processing, measurement and inspection [GB/T 9253.2-1999, idtAPISpec5B.1996 (14th Edition)] GB 9573 Rubber and plastics hoses and hose assemblies size measurement method (GB/T 9573-2003, ISO 4671:2007, IDT) GB/T 9576 Rubber and plastics hoses and hose assemblies for selection, storage, use, and maintenance (GB/T 9576-2001, idt ISO 8331:2007) GB/T 9867-2008 Rubber, vulcanized or thermoplastic - Determination of abrasion resistance (abrasion rotating cylindrical drum machine method) (ISO 4649.

2002, IDT)

3 Terms and Definitions

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

Category 4

Hoses and hose assemblies for use according to the maximum working pressure is divided into seven levels (Table 1).