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

**GB/T 37265-2018**

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**Petroleum and natural gas industries -- Design and operating  
limits of drill strings with aluminium alloy drill pipes**

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### Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to ISO 20312.2011 "Drilling column design and operation of aluminum alloy components in the oil and gas industry.

limit".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

---GB/T 9445-2015 Non-destructive testing personnel qualification and certification (ISO 9712.2012, IDT);

---GB/T 20659-2017 Oil and gas industry aluminum alloy drill pipe (ISO 15546.2011, MOD).

### 1 Scope

This standard specifies the design, selection and evaluation of drill string with aluminum alloy drill pipe, use management, maintenance and transportation and storage technology.

Technical requirements and performance indicators.

This standard applies to drill string design and operating limits for aluminum alloy drill pipes manufactured in accordance with ISO 15546.

Note. Appendix A gives the design, scope and technical performance of the integral joint drill pipe and thick-walled drill pipe. Appendix B gives the calculation formula, Appendix C gives the SI single.

The conversion relationship to the USC unit.

### 2 Normative references

The following documents are indispensable for the application of this document. For dated

references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 9712 Non-destructive testing personnel qualification and certification (Non-destructive testing-Qualificationandcertifi-

Cationofpersonnel)

ISO 15546 oil and gas industry aluminum alloy drill pipe (Petroleum and naturalgas industry-Aluminiumal-

Loydrilpipe)

ASNT Recommended Practice No. SNT-TC-1A, Non-destructive Testing Personnel Qualification (ASNTRecomedendedPracticeNo.

SNT-TC-1A, Personnelqualificationandcertificationinnondestructivetesting)

### **3.1 Terms and definitions**

The following terms and definitions apply to this document.

#### **3.1.1**

Aluminum alloy tube aluminiumaloypipebody

Extruded aluminum alloy tube, including thickened end and thickened protective section.

#### **3.1.2**

Aluminum alloy drill pipe aluminiumaloydrilpipe

A lightweight drill pipe made of a variety of alloys based on aluminum. Structure includes threaded steel joints and aluminum alloy drill pipe or integral aluminum

Alloy joints and tubes.

#### **3.1.3**

Female connector box

Drill pipe joint with internal thread.

#### **3.1.4**

Buckling buckling

The drill string is unstable and bent by axial pressure.