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

GB/T 34525-2017

**Safety rules for the handling, loading, unloading, storage and
use of gas cylinders**

气瓶搬运、装卸、储存和使用安全规定

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Standardization Administration of the PRC**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Workers
- 5 Labor protection

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. Please note that some of this document may be patentable. The release of this document The agency does not assume responsibility for identifying these patents. This standard by the National Gas Cylinder Standardization Technical Committee (SAC/TC31) and focal point. This standard was drafted by Hangzhou New Century Mixed Gas Co., Ltd., Beijing Helium North Gas Industry Co., Ltd., Beijing Praxair Practical Gas Co., Ltd., China Industrial Gas Industry Association. The main drafters of this standard. Wu Yue Sun, Zhao Junxiu, Hunchun dry, Song Qi, Shen Jianlin, Zhang Jinbo. Gas cylinder handling, handling, storage and use safety regulations

1 Scope

China's national safety rules for gas cylinders in transit, in store and in use. It specifies the safety technical requirements for handling, loading and unloading, storing and using cylinders in the places where those things happen, and it applies to cylinders used at ambient temperatures from minus 40 to 60 degrees C. A gas cylinder is one of the few genuinely dangerous objects that circulates through ordinary workplaces without ceremony. It is a pressure vessel holding gas at up to two hundred times atmospheric pressure, and it is carried by hand, moved on trolleys, left standing against walls and used by people with no engineering training. If it falls and the valve breaks off, the cylinder becomes a projectile capable of going through a brick wall. If it is stored next to an incompatible gas, or in the sun, or in a stairwell, the consequences of any other failure multiply. Almost everything in this standard is a rule about handling rather than about the cylinder itself, because that is where the accidents happen.

This standard specifies the basis for handling, handling, storage and use of bottled gas cylinders in the areas of use, storage, operation and storage of such places This safety technical requirement. This standard applies to the normal ambient temperature -40 °C ~ 60 °C under the use of a nominal volume of 0.4L ~ 3000L, nominal working pressure Force

of 0.2MPa ~ 35MPa (gauge pressure, the same below) and the product of pressure and volume greater than or equal to 1.0MPa · L, containing compressed gas, high (Low) liquefied gas, cryogenic liquefied gas, dissolved gas, adsorbed gas, liquids having a normal boiling point equal to or lower than 60 ° C. and a mixed gas Body of seamless cylinders, welding cylinders, welding insulated cylinders, wrapped cylinders, filled with gas cylinders. This standard does not apply to only withstand instantaneous pressure in fire when stored without pressure on the fire extinguisher cylinders, fixed use Bottled pressure vessels as well as military equipment, nuclear facilities, aerospace vehicles, railway locomotives, offshore installations and ships, and specialized equipment for civilian airports Gas cylinders, car gas cylinders, long tube trailers, large volume cylinders for tube bundle vehicles.

2 Normative references

The following documents for the application of this document is essential. 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.

GB/T 7144 cylinder color logo

GB/T 13005 gas bottle terminology

GB/T 16804 cylinder warning labels

GB/T 26571 special gas storage period specification

GB/T 28054 steel seamless cylinder cluster device JT617 Rules for the Transport of Dangerous Goods by Car

3 Terms and definitions

GB/T 13005 and GB/T 28054 defined terms and definitions apply to this document.

4 Workers

4.1 gas cylinder handling, loading and unloading, storage and use of operating personnel should be in accordance with the relevant provisions of the certificate.

4.2 Operators should understand the operation of the cylinder and bottle media characteristics, related requirements and emergency response technology in the event of an accident.

4.3 Operators should always check the cylinder safety during operation, and take timely measures to identify problems.

5 Labor protection

5.1 work unit should be equipped with the necessary labor protection supplies and on-site first aid equipment.

5.2 homework operators should wear the appropriate protective equipment, and take the appropriate protection of body and body measures.

5.3 The operating unit should be responsible for regular training of workers on health checks and accident prevention, first aid knowledge.