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

GB/T 12130-2020

Replacing GB/T 12130-2005

Hyperbaric oxygen chambers

氧舱

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 12130-2005 "Medical Air Pressurized Oxygen Chamber" and GB/T 19284-2003 "Medical Oxygen Pressurized Chamber". Compared with GB/T 12130-2005 and GB/T 19284-2003, the main technical changes of this standard are as follows except for editorial changes.

---The scope of application of this standard includes both the types of oxygen chambers applicable to GB/T 12130-2005 and GB/T 19284-2003, as well as Including hyperbaric chamber (see Chapter 1);

---Modified the names of the various components of the oxygen chamber, which are consistent with the TSG24-2015 "Oxygen Chamber Safety Technical Supervision Regulations" (see Chapter 5, Chapter 5) Chapter 6, Chapter 5 of GB/T 12130-2005);

---Added the requirements for the design method, welding type and non-destructive testing method of the special section structure type cylinder (see 5.1.1, 5.1.2.2, 5.1.2.3 and 5.1.2.6);

---Added the requirements for the quality of the pressure medium of the pressure regulation system (see 5.2.2);

---Added the medical oxygen chamber product logo, nameplate, and instructions that should meet the requirements of the medical device management regulations (see 8.1.2, 8.2.3 and 8.5.2);

---The normative appendix "Window for Oxygen Chamber" has been added (see Appendix A). This standard was proposed and managed by the National Boiler and Pressure Vessel Standardization Technical Committee (SAC/TC262). Drafting organizations of this standard. 701 Research Institute of China Shipbuilding Industry Corporation, China Special Equipment Inspection and Research Institute, Shanxi Boiler Pressure Vessel Supervision and Inspection Institute, Hubei Special Equipment Inspection and Testing Institute, Yantai Special Equipment Inspection and Research Institute, Zhejiang Medical Devices Instrument Inspection Institute, Qingdao University Affiliated Hospital, Shenzhen People's Hospital, Beijing Haidian Hospital, Yantai Hongyuan Oxygen Industry Co., Ltd., Yantai Binglun Hyperbaric Chamber Co., Ltd., Wuhu Diving Equipment Factory of Shanghai Salvage Bureau, Guizhou Fenglei Aviation Ordnance Co., Ltd. The main drafters of this standard. Chang Jian, Lin Yanqun, Zhou Yufeng, Yuan Suxia, Li Xiaolu, Li Peizhong, Sun Yu, Qu Jin, Wang Peisong, Long Ying, Ding Jianzhang, Jia Chunya, Bing Zhanxiang, Ke Wenhai, He Longhua. The previous versions of the standard replaced by this standard are as follows:

---GB 12130-1985, GB 12130-1995, GB/T 12130-2005;

---GB/T 19284-2003. Oxygen chamber

1 Scope

GB/T 12130-2020 is the Chinese national standard on hyperbaric oxygen chambers, in the field of health care technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 29 September 2020 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2021. Classification: ICS 11.040.60, CCS C42. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the classification, requirements, test methods, inspection rules, markings and instructions for use, packaging, transportation, and storage of oxygen cabin products. This standard applies to medical oxygen chambers and high-pressure chambers specified by TSG24-2015.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 150.1 Pressure Vessel Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Use breathable gas such as air, oxygen or mixed gas as the pressure medium, which is used for the treatment and adaptive training of personnel in the cabin Manned pressure vessel.

3.2 Medical oxygen chamber medicalhyperbaricchamberpressurized A manned pressure vessel that uses air or oxygen as the pressure medium for treatment in the cabin.

3.3 Medical air pressurized oxygen chamber medicalhyperbaricchamberpressurizedwithair Air is used as the pressure medium for manned pressure vessels for treatment.

4 Manufacturing, Inspection and Acceptance

GB/T 191 Packaging, Storage and Transportation Graphic Mark

GB/T 1040.1-2018 Determination of tensile properties of plastics Part