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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE

PEOPLE'S REPUBLIC OF CHINA

JJF 1891-2021

Calibration Specification for Medical Oxygen Generators with Molecular Sieve

医用分子筛制氧机校准规范

(English Translation)

Issued on: February 23, 2021 **Implemented on: August 23, 2021**

Issued by: State Administration for Market Regulation

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Introduction

The compilation of this specification is based on JJF 1071-2010 "Rules for the Compilation of National Metrology and Calibration Specifications", JJF 1001-2011 "General Metrology Terms and Definitions" and JJF 1059.1-2012 "Evaluation and Expression of Measurement Uncertainty" as the basis and in accordance with.

This specification is released for the first time.

Calibration specification for medical molecular sieve oxygen generator

1 Scope

This specification applies to the calibration of the measurement characteristics of small medical molecular sieve oxygen generators with continuous oxygen supply.

A medical molecular sieve oxygen production system with a piped medical gas device that supplies gas to several patients is also not suitable for flammable anesthesia Medical molecular sieve oxygen generator used under gas or cleaning agent conditions.

2 Reference documents the following documents are cited in this specification.

GB/T 5832.2-2016 Determination of trace moisture in gas analysis Part 2: Dew point method GB/T 11605-2005 Humidity measurement method GB/T 33032-2016 Molecular Sieve Terminology YY/T 0298-1998 General technical specifications for medical molecular

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sieve oxygen production equipment YY0732-2009 Safety requirements for medical oxygen concentrators YY1468-2016 Oxygen concentrator gas supply system for medical gas pipeline system for dated reference documents, only the dated version applies to this specification; for all undated references the latest version (including all amendments) is applicable to this specification.

3 Terms and units of measurement GB/T 33032-2016, GB/T 5832.2-2016 and YY/T 0298-1998 and the following techniques the terms and definitions apply to this specification.

3.1 Molecular sieve A type of solid material with uniform micropores and the pore size is equivalent to the general molecular size.

3.2 adsorption

When the gas phase (or liquid phase) and the solid phase form an adsorption system (adsorption phase), the components at the phase interface are enriched phenomenon.

3.3 desorption

A phenomenon in which the molecules of the gas (or liquid) that have been adsorbed by the adsorbent are released back to the gas (or liquid) phase.

3.4 pressureswingadsorption; PSA Cycle operation process of pressure adsorption and decompression desorption.

3.5 Molecular sieve for oxygen generation the adsorption of nitrogen is greater than the adsorption of oxygen, molecular sieve that can adsorb and separate nitrogen and oxygen.

3.6 dewpoint

The temperature at which unsaturated air or other humidity is cooled to a saturated state.

3.7 Maximum recommended flow the maximum flow rate stated or recommended by the equipment manufacturer on the manual or on the nameplate of the instrument, in liters per minute (L/min).

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