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General technical specification for disinfectant packaging lines

消毒剂灌装生产线通用技术条件

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Table of Contents

- 1 Scope
- 2 Normative references
- 14 Site classification Explosive gas atmosphere
- 15 Design, selection and installation of electrical devices
- 16 Inspection and maintenance of electrical installations

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing agency of this document is not responsible for identifying patents. This document was proposed and managed by the National Packaging Machinery Standardization Technical Committee (SAC/TC436). Drafting organizations of this document. Jiangsu Tom Intelligent Equipment Co., Ltd., Hefei General Machinery Research Institute Co., Ltd., Guangzhou Tech-Long Packaging Machine Machinery Co., Ltd., Jiangsu Only One United Intelligent Manufacturing Co., Ltd., Guangzhou Special Mechanical and Electrical Equipment Testing and Research Institute, Harbin University of Commerce, Guangzhou Li Bai Enterprise Group Co., Ltd., Jiangsu Aitefu

84 Co., Ltd., Jiangsu Xinmeixing Industrial Research Institute Co., Ltd., Hefei General Machinery Products Inspection Institute Co., Ltd., Slack Packaging Equipment (Shanghai) Co., Ltd., Kunshan Bayijiu Packaging Machinery Co., Ltd., Krones Machinery (Taiwan) Warehouse) Co., Ltd., Qingzhou Tongda Packaging Machinery Co., Ltd., Shanghai Likang Disinfection High-tech Co., Ltd., Changzhou Jintan Everest Packaging Machinery Co., Ltd. Co., Ltd., Changzhou Cerek Packaging Machinery Co., Ltd., Jiangnan University, Luowa Technology Industrial Group Co., Ltd., Nice Group Co., Ltd., Zhejiang University, Ningbo Institute of Technology, Zhejiang University, South China University of Technology, Changchun Rongcheng Intelligent Equipment Manufacturing Co., Ltd., Shanghai Wangwang Food Group Co., Ltd., Nantong Shinshui Biological Technology Co., Ltd., Luoyang Yuanyang Lena Medical Co., Ltd., Nanyang Explosion-proof Electrical Research Institute Co., Ltd., Shan Donglierkang Medical Technology Co., Ltd., Guangdong Technical Normal University. The main drafters of this document. Tang Jianhua, Chen Runjie, Fan Di, Wang Xinhua, Yin Xianggen, Qian Chenglong, Sun Zhihui, Jiang Jin, Shen Kaicheng, He Yuntao, Lu Jiaping, Liu Lu, Ji Rong, Li Jingming, Wang Lixue, Zhu Baoting, Wu Haiying, Fa

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1 Scope

China's national general technical specification for disinfectant packaging lines. It specifies the terms and definitions, the model, the type, the composition and the basic parameters. A packaging line for disinfectant is a filling and capping line with a specific difficulty: the product attacks the machine. Sodium hypochlorite, peracetic acid, quaternary ammonium compounds and alcohol are variously corrosive, oxidising and flammable, and the pumps, valves, seals and filling nozzles that handle them have to be selected for the chemistry rather than taken from a general catalogue. Alcohol-based products add an explosion hazard that changes the electrical specification of the whole room. The standard was published in 2021, which places it after a period in which disinfectant production capacity in China expanded faster than the equipment industry serving it, and a specification defining what such a line must be was a practical necessity rather than an administrative one.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to This document.

GB/T 191 Packaging, storage and transportation pictorial signs

GB 2894 Safety signs and guidelines for their use

GB 3836.1 Explosive Atmosphere Part

GB/T 7311 Packaging Machinery Classification and Model Establishment Method

GB/T 7932 General rules and safety requirements for pneumatic systems and their components

GB/T 8196 General requirements for the design and manufacture of fixed and movable protective devices for mechanical safety protection devices

GB/T 9969 General Rules for Use of Industrial Products

GB 12158 General Guidelines for Preventing Electrostatic Accidents

GB/T 12325-2008 Power quality power supply voltage deviation

GB/T 13277.1 Compressed Air Part

14 Site classification Explosive gas atmosphere

GB/T 3836.15 Explosive atmosphere Part

15 Design, selection and installation of electrical devices

GB/T 3836.16 Explosive atmosphere Part

16 Inspection and maintenance of electrical installations

GB/T 4208-2017 Enclosure protection grade (IP code)

GB/T 5226.1-2019 Electrical safety of machinery Electrical equipment of machinery Part