

ICS 13.220.01
CCS C 80



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

GB/T 46794-2025

**Construction and operation guidelines for gas protection
stations in chemical industry parks**

化工园区气体防护站建设运行指南

Issued on: December 2, 2025

Implemented on: April 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Planning	2
5.Site Selection	2
6.Construction 2 7 personnel	3
8.Supplies and Equipment	3
3 Appendix A (Informative) Emergency Supplies and Equipment for Gas Protection Stations in Chemical Industrial Parks (5 items) References	7

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Hazardous Chemicals Management (SAC/TC251). This document was drafted by: China Academy of Safety Science and Technology, Tianjin Fire Research Institute of the Ministry of Emergency Management, and China Petrochemical Engineering Construction Co., Ltd. The company, University of Science and Technology of China, East China University of Science and Technology, Wuhan University of Technology, Tsinghua University, Jingding Engineering Construction Co., Ltd., and Shanghai Netbo Network. Network Technology Co., Ltd., Saifete Engineering Technology Group Co., Ltd., Anhui Shihua Engineering Technology Co., Ltd., Shandong Yucheng Jinsheng Biotechnology Co., Ltd. Purification Co., Ltd. The main drafters of this document are. Chen Sining, Wei Lijun, Luo Aimin, Ren Changxing, Zeng Tao, Duo Yingquan, Li Shaopeng, Meng Jingwei, Xiao Huahua, and Shen Xiaobo. Zhang Ying, Zhang Xiaole, Ren Yinghua, Zhang Bin, Song Zhanbing, Su Mingqing, Zhang Yan, Fang Yunlong, Wang Haoran, Li Yan, Kong Xiangbei, Chen Changjun, Li Di, Chen Zhongyu Li Zhanguo. Construction and Operation Guidelines for Gas Protection Stations in Chemical Industrial Parks

1 Scope

GB/T 46794-2025 is the Chinese national standard covering the gas rescue station of a

chemical park - the breathing apparatus and detection equipment held, the trained team, the response time to any point in the park and the drills that keep it real. First edition, and it belongs with the hazardous chemical alarm and evacuation series GB/T 47438. It was issued on 2 December 2025 and has been in force since 1 April 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document provides guidelines for the planning, site selection, construction, personnel, equipment, and operation of gas protection stations in chemical industrial parks. This document applies to the construction and operation of gas protection stations in chemical industrial parks.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB 36894 Risk Baseline for Hazardous Chemical Production and Storage Facilities

GB/T 37243 Method for determining the external safety protection distance of hazardous chemical production facilities and storage facilities

GB/T 42078 Guidelines for the Development and Construction of Chemical Industrial Parks

GB 50016 Code for Fire Protection Design of Buildings

GB 50074 Code for Design of Oil Depots

GB 50160 Fire Protection Design Standard for Petrochemical Enterprises

GB 51283 Fire Protection Standard for Engineering Design of Fine Chemical Enterprises

GB 55037 General Code for Fire Protection of Buildings

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Masterplanning The nature, development goals, development scale, land use, spatial layout, logistics and transportation, safety and emergency response of chemical industrial parks within a certain period. Comprehensive planning and implementation measures for rescue, ecological environment and various construction projects.

3.2 Special planning Within a certain period, comprehensive measures will be taken to address safety production, emergency rescue, ecological environmental protection, economical and intensive land use, and integrated disaster prevention and mitigation in chemical industrial parks. Combined deployment and implementation measures.

Note. The form is either a plan prepared separately or a plan prepared as a special chapter in the overall plan of the chemical industrial park.

3.3 Establish institutions and facilities within or around chemical industrial parks to provide emergency assistance to enterprises in the parks for injuries caused by toxic and harmful gases.

3.4 Toxic gas When inhaled through the respiratory tract or skin, it acts on humans or other animals and can cause temporary or permanent damage to bodily functions in humans or other animals. Gases, vapors, mists, or mixtures of gases containing toxic dust that can cause sexually transmitted diseases, illnesses, or even death.