

ICS 75.020
CCS P 72

SH

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

SH/T 3106-2019

Replacing SH/T 3106-2009

**Design specification for nitrogen and oxygen system in
petrochemical industry**

石油化工氮氧系统设计规范

(English Translation)

Issued on: August 2, 2019

Implemented on: January 1, 2020

Issued by: Ministry of Industry and Information Technology

Table of Contents

What this standard covers	1
Document data	2
Standards quoted by this document	3

What this standard covers

This standard specifies the layout of the air separation unit of the nitrogen-oxygen system, the determination of the production scale, product specifications and equipment, the storage and transportation of nitrogen and oxygen, the design of process piping, the basic technical requirements of the cold box and the design principles of the automatic control system. This standard is applicable to the design of new, rebuilt or expanded air separation plants in petrochemical enterprises and the design of nitrogen or oxygen production using pressure swing adsorption.

Document data

International classification (ICS): 75.020.

Chinese classification (CCS): P72.

Estimated length of the Chinese original: 26,236 words.

Supersedes the earlier edition SH/T 3106-2009.

Standards quoted by this document

GB 16912; GB 50030; GB 50057; GB/T 50087; GB 50187; GB 50650; JB/T 5902; SH/T 3020; SH/T 3035; SH/T 3082; SH/T 3198; SH/T 3205