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CCS F01



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

GB 29141-2024

Replacing GB 29141-2012

**Norm of energy consumption per unit production of industrial
sulfuric acid, dilute nitric acid and glacial acetic acid**

工业硫酸、稀硝酸和冰醋酸单位产品能源消耗限额

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1 Scope

GB 29141-2024 is the Chinese national standard on norm of energy consumption per unit production of industrial sulfuric acid, dilute nitric acid and glacial acetic acid, in the field of energy and heat transfer engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 28 May 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 June 2025. Classification: ICS 27.010, CCS F01. 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 document specifies the energy consumption per unit product (hereinafter referred to as energy consumption) limit level, technical requirements and Requirements, statistical scope and calculation methods. This document is applicable to the calculation and assessment of energy consumption of industrial sulfuric acid, dilute nitric acid and glacial acetic acid production enterprises, as well as new construction and expansion projects. energy consumption control.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies. in this document.

GB/T 213 Method for determination of calorific value of coal

GB/T 337.2 Industrial nitric acid Dilute nitric acid

GB/T 534 Industrial sulfuric acid

GB/T 1628 Glacial acetic acid for industrial use

GB/T 2589 General rules for comprehensive energy consumption calculation

GB/T 11062 Calculation method for calorific value, density, relative density and Wobbe index of natural gas

GB/T 12723 General rules for the compilation of energy consumption limits per unit product

3 Terms and definitions

The terms and definitions defined in GB/T 2589 and GB/T 12723 and the following apply to this document.

3.1 comprehensive energy consumption of sulfuric acid of industrials During the statistical reporting period, the sum of various energies input into the sulfuric acid production boundary minus the sum of various energies output outside.

Note. All types of energy input and output are converted into standard coal volume according to the prescribed method.

3.2 comprehensive energy consumption of per unit production of sulfuric acid of industrials During the statistical reporting period, the comprehensive energy consumption is expressed as 100% of the unit output of sulfuric acid.

3.3 comprehensive energy consumption of dilute nitric acid During the statistical reporting period, the various energy sources consumed in the production of dilute nitric acid using synthetic ammonia as raw material were converted into standard coal volume according to the prescribed method.

3.4 comprehensive energy consumption of dilute nitric acid of per unit production (100% HNO₃) of dilute nitric acid During the statistical reporting period, the comprehensive energy consumption is expressed as 100% nitric acid unit output.

3.5 comprehensive energy consumption of glacial acetic acid of industrials During the statistical reporting period, various energy sources actually consumed in the entire production process of acetic acid products were converted into standard coal volume according to the prescribed method.