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

GB/T 18916.58-2021

Norm of water intake - Part 58: Titanium dioxide

取水定额 第58部分：钛白粉

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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" drafted: This document is Part 58 of GB/T 18916 "Water Withdrawal Quota": GB/T 18916 has released the following parts:

- Part 1: Thermal power generation;
- Part 2: Iron and steel complexes;
- Part 3: Petroleum refining;
- Part 4: Textile dyeing and finishing products;
- Part 5: Paper products;
- Part 6: Beer manufacturing;
- Part 7: Manufacture of alcohol;
- Part 8: Synthetic ammonia;
- Part 9: Manufacturing of monosodium glutamate;
- Part 10: Chemical pharmaceutical products;
- Part 11: Coal preparation;
- Part 12: Alumina production;
- Part 13: Ethylene production;

1 Scope

GB/T 18916.58-2021 is the Chinese national standard on norm of water intake - part 58:titanium dioxide, in the field of environment and health protection, safety. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is

how most foreign buyers meet it. It was issued on 31 December 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2022. Classification: ICS 13.060.25, CCS P41. 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 calculation method, water intake quota and quota management requirements for titanium dioxide water intake quota: This document is applicable to the management of water intake by existing, newly built and renovated titanium dioxide production enterprises:

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document:

GB/T 12452 General Rules for Enterprise Water Balance Test

GB/T 18820 General Rules for the Compilation of Water Intake Quotas for Industrial Enterprises

GB/T 21534 Terms of Water Conservation

GB 24789 General rules for the provision and management of water measuring instruments for water units

3 Terms and Definitions

Terms and definitions defined in GB/T 18820 and GB/T 21534 apply to this document:

4 Calculation method

1 General provisions 4:1:

1 Scope of water intake The scope of water withdrawal refers to the amount of water extracted by enterprises from various conventional water sources, including surface water (measured by water supply from water purification plants), groundwater, urban Town water supply projects, as well as other water or water products (such as steam, hot water, geothermal water, etc.) purchased by the enterprise from the market: 4:1:

2 Scope of water intake and supply The scope of supply of water intake for titanium dioxide manufacturing includes: main production (including using titanium iron powder and

concentrated sulfuric acid as raw materials, and generating sulfur through acid hydrolysis reaction) Titanium oxide, hydrolyzed to generate metatitanic acid, and then calcined and pulverized to prepare the production process, or use rutile or high-titanium slag powder and coke as raw materials, mixed with After the combination, high-temperature chlorination is carried out to produce titanium tetrachloride, and then high-temperature oxidation, filtration, washing, drying and crushing are carried out in the production process), auxiliary production (including Including machine repair, boiler, air compressor station, sewage treatment station, inspection and testing, comprehensive utilization, transportation, etc.) and ancillary production (including office, greening, factory canteen and bathroom, toilet, etc.): 4:1:

3 Measurement of water withdrawal The amount of water taken shall be measured by the enterprise-level meter: 4:2 tons of titanium dioxide water intake The water intake per ton of titanium dioxide is calculated according to formula (1):