

ICS 13.060.25

CCS P41



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

**GB/T 18916.43-2019**

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**Norm of water intake - Part 43: Production of ion-adsorption  
rare earth ore separation**

取水定额 第43部分：离子型稀土矿冶炼分离生产

**Issued on: October 18, 2019**

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Standardization Administration of China**

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### Foreword

GB/T 18916 "Water quota", the following parts have been or are planned to be released.

- Part 1. Thermal power generation;
- Part 2. Iron and steel joint ventures;
- Part 3. Petroleum refining;
- Part 4. Textile finishing products;
- Part 5. Paper products;
- Part 6. Beer manufacturing;
- Part 7. Alcohol manufacturing;
- Part 8. Synthetic ammonia;
- Part 9. MSG manufacturing;
- Part 10. Pharmaceutical products;
- Part 11. Coal preparation;
- Part 12. Alumina production;
- Part 13. Ethylene production;

### 1 Scope

GB/T 18916.43-2019 is the Chinese national standard on norm of water intake - part 43: production of ion-adsorption rare earth ore separation, 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 18 October 2019 by the State Administration for Market Regulation; Standardization

Administration of China, and has been in force since 1 February 2020. 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 part of GB/T 18916 specifies the relevant terms and definitions and calculation methods for the effluent quota of ionic rare earth ore smelting and separation. And the water quota. This part is applicable to the management of the water intake of the existing, newly built and rebuilt and expanded ionic smelting and separation production. This section does not include the management of the amount of water taken from the recovery of rare earth smelting and separation of NdFeB waste; does not include rare earth enrichment (including rare earth chlorination). Management of effluent separation and production of water, rare earth carbonate, rare earth oxalate, rare earth hydroxide, rare earth oxide, etc.

## 2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 12452 Enterprise Water Balance Test General

GB/T 15676 rare earth terminology

GB/T 18820 General rules for the preparation of water withdrawal quotas for industrial enterprises

GB/T 21534 Industrial Water Saving Terminology

GB 24789 Water unit water metering equipment management and general rules

## 3 Terms and definitions

The following terms and definitions as defined in GB/T 15676, GB/T 18820 and GB/T 21534 apply to this document.

### 3.1 Ion-type rare earth ore smelting separation production

production of ion-adsorption rare earth ore separation Using ionic rare earth ore as raw material, separation or purification by solvent extraction, crystal precipitation, etc. to produce a single rare earth compound or rare earth enrichment The production process of rare earth chlorides, rare earth carbonates, rare earth oxalates, rare earth hydroxides, rare earth oxides, etc. Compound (REO) meter.

### 4.1 General provisions

4.1.1 Scope of water withdrawal The water withdrawal range refers to the amount of water that the enterprise extracts from various conventional water resources, including from surface water (measured by water supply from the water purification plant), underground. Water, urban water supply projects, and other water or water products (such as steam, hot water, geothermal water, etc.) purchased by the company.

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