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

**GB 36892-2018**

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**The norm of energy consumption per unit production of  
corundum**

刚玉单位产品能源消耗限额

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## Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Energy limit level

### Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed and managed by the China National Standardization Administration. This standard is drafted by: Jiangsu Jingxin New Materials Co., Ltd., Metallurgical Industry Information Standards Institute, Henan Refractory Industry Association, China Machine Tool Industry Association Abrasives Branch. Participated in the drafting of this standard. Guizhou Dazhong No.7 Grinding Wheel Co., Ltd., Hanzhong Qinyuan Technology New Material Co., Ltd., Guizhou Sanshan Grinding Co., Ltd., Shandong Kunpeng New Material Technology Co., Ltd., Zhejiang Zili Alumina Material Technology Co., Ltd., Chongqing Scitech Co., Ltd., Zhengzhou Yuda High-tech Materials Co., Ltd. The main drafters of this standard. Qiu Jinhui, Qi Qينو, Zhou Jinlong, Li Zhengkun, Zhang Jiaqin, Wang Xiaolin, Hu Yong, Liu Yuanju, Wang Jiangwei, Li Rongjun, Lv Yusheng, Zhang Jialiang, Li Junyuan, Wei Yusheng, Yan Fangyong, Zhao Yi, Huang Kai, Yue Weipeng. Corundum unit product energy consumption limit

### 1 Scope

GB 36892-2018 is the Chinese national standard on the norm of energy consumption per unit production of corundum, 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 19 November 2018 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 December 2019. Classification: ICS 27.01, 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 standard specifies the terms and definitions of the energy consumption of corundum unit products (hereinafter referred to as the energy consumption per unit of product), the energy consumption limit level, Technical requirements, statistical scope and calculation

methods. This standard applies to the energy consumption of corundum (including brown fused alumina, white corundum, white corundum, dense corundum, sintered corundum) Calculation, assessment and energy control of new projects.

## 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 3101 General principles for quantities, units and symbols

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

GB 17167 Energy-using unit energy metering equipment management and general rules

## 3 Terms and definitions

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

### 3.1 Corundum unit product energy consumption

energyconsumptionperunitproductionofcorundum The total amount of energy consumed to produce 1t qualified corundum blocks.

## 4 Energy limit level

The corundum production process is divided into electrofusion and sintering. The energy consumption limit of fused corundum unit products is shown in Table 1. The energy consumption of sintered corundum unit products The limit level is shown in Table 2, where level 1 has the lowest energy consumption. Table

1 The energy consumption limit level of fused corundum is kWh per ton Variety Energy limit level Brown corundum  $\leq 2100 \leq 2300 \leq 2400$  White corundum  $\leq 1200 \leq 1500 \leq 1680$  Asian white corundum  $\leq 2750 \leq 2800 \leq 2950$  Dense corundum  $\leq 2300 \leq 2400 \leq 2600$

Note. Brown corundum and white corundum are made of high alumina bauxite; white corundum and dense corundum are made of alumina powder.