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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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GB 38449-2019

**Minimum allowable values of energy efficiency and
energy efficiency grade of regenerative rolling
reheating furnace**

蓄热式轧钢加热炉能效限定值及能效等级

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard was proposed by and shall be under the jurisdiction of Standardization Administration of the People's Republic of China.

The drafting organizations of this Standard: University of Science and Technology Beijing, Shenwu Technology Group Co., Ltd., China National Institute of Standardization, Beijing Dingxin Ganglian Science and Technology Collaborative Innovation Research Institute, Metallurgical Industry Planning Institute, Beijing-Tianjin-Hebei Iron and Steel Alliance (Qian'an) Collaborative Innovation Research Institute, CECEP Consulting Co., Ltd.

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Minimum allowable values of energy efficiency and energy efficiency grade of regenerative rolling reheating furnace

1 Scope

This Standard specifies energy efficiency grade, minimum allowable values of energy efficiency and test methods of regenerative rolling reheating furnace.

This Standard is applicable to continuously-running regenerative rolling reheating furnace that uses blast furnace gas and mixed gas as fuel, including pusher-type reheating furnace, walking-type reheating furnace and rotary hearth reheating furnace.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 13338, *Basic rules for the measurement and calculation of thermal equilibrium of fuel-fired furnace in industry*

GB 17167, *General principle for equipping and managing of the measuring instrument of energy in organization of energy using*

GB/T 17195, *Industrial furnace terminology*

GB 50486, *Code for design of industrial furnaces in iron & steel works*

YB/T 4209, *Regenerative combustion technical specification of iron and steel industry*

YB/T 4242, *Technical specification energy saving design for reheating furnace of steel rolling in iron and steel works*

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T

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