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Slag vertical roller mill - Energy consumption index

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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 for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Energy consumption index of slag cement vertical mill

1 Scope

This document specifies the technical requirements, test methods, energy consumption assessment and energy consumption grade marking for slag cement vertical mill energy consumption indicators.

This document is applicable to the production of granulated blast furnace slag powder for cement, mortar and concrete.

Slag cement vertical mill (hereinafter referred to as vertical mill).

2 Normative references

GB/T 203

GB/T 7679.5

GB/T 8170

GB/T 18046-2017

3 Terms and definitions

The terms and definitions defined in GB/T 7679.5 and the following apply to this document.

3.1 Normal regime

The grindability index (Bond method) of the material to be ground is not more than 22 kW-h/t, the moisture content of the material entering the mill is not more than 18%, and the particle size of the material entering is not large.

The particle size of the product is less than 10 mm, the specific surface area of the product is not less than 4.200 cm²/g (Blaine method), and the residual moisture of the product is not more than 1% (mass fraction).

Note. The grindability index test as specified in GB/T 26567 stipulates that the mesh size of the finished sieve is 80 μm.

3.2 Energy consumption index

The ratio of the vertical mill's measured average power to its processing capacity under specified standard operating conditions.

Note. The unit is kilowatt-hour per ton (kW-h/t).

3.3 evaluating value of energy conservation

Under the test conditions specified in this document, the energy consumption index values required for energy-saving products are achieved.

4 Technical requirements

4.1 The design, manufacture and quality of vertical mill shall comply with the provisions of JB/T 10997.

4.2 Grinding material The quality of granulated blast furnace slag shall comply with the requirements of GB/T 203.

4.3 The quality of the produced granulated blast furnace slag powder shall not be lower than the S95 grade specified in GB/T 18046-2017.