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**NONFERROUS METALS INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YS/T 103-2008

Replacing YS/T 103-2004

Energy consumption of bauxite production

铝土矿生产能源消耗

(English Translation)

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Foreword

Instead of the standard YS/T 103-2004 "energy consumption in the production of aluminum," this standard is YS/T 103-2004 "energy consumption in the production of aluminum," the amendment. Compared with YS/T 103-2004, has the following change.

- Standard name changed to "bauxite energy consumption";
- Remove aluminum, alumina and aluminum content calculated using the carbon products;
- Standardized part of the definition and calculation methods.

Appendix A of this standard is an informative annex.

This standard by the National Standardization Technical Committee of non-ferrous metals and centralized.

This standard by the Aluminum Corporation of China Henan Branch, China Guizhou branch Chalco, China Nonferrous Metal Workers Industry Institute of Standards Metrology and Quality is responsible for drafting.

This standard Aluminum Corporation of China Guangxi Branch, Aluminum Corporation of China Shandong Branch participated in the drafting.

1 Scope

This standard specifies the calculation method of bauxite production energy consumption.

This standard applies to bauxite production calculation and assessment of energy consumption.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 2589 General Principles of comprehensive energy consumption calculation GB 17167 energy use per unit of energy measuring instruments and General Manager

3.1 Primary energy

Primary energy refers to the presence of nature in the form of ready-made, without any change or conversion of natural energy resources, that is taken directly from nature We do not have to change its shape and taste of energy. Such as coal, crude oil, natural gas, hydro, wind, solar, geothermal, ocean energy, tidal I can wait.

3.2 Secondary energy

Secondary energy is to meet the specific needs of the production process and life as well as rational use of energy, primary energy will increase, directly or indirectly Workers converted to produce other types and forms of artificial energy. Such as coal washing, coke, gas, gasoline, kerosene, diesel, fuel oil, liquefied petroleum gas, Refinery dry gas, electricity and so on.

3.3 Energy working fluid

Energy refers to the working fluid in the production process is not consumed as a raw material, nor into the product, preparation time and need to consume energy work substance. Such as fresh water, recycled water, compressed air, oxygen and so on.

3.4 Waste Heat Resources

Waste heat resources are available through the waste heat of technical and economic analysis to determine.

3.5 Enterprise energy consumption

Energy production and consumption is an enterprise in the production process as fuel, power, raw materials, energy and auxiliary materials used. It includes a Primary energy (3.1), secondary energy (3.2), energy working fluid (3.3) and heat resources purchased (3.4). The production of energy use is report Enterprises during the main production system, auxiliary production system and subsidiary of energy. Including energy and energy working fluid within the enterprise storage, transfer Exchange and metering, supply (including exports) in various losses.

3.6 Enterprises the amount of energy purchased

Enterprise purchase amount of energy sector should be based on national measurement calibration of measuring instruments qualified digital measurement prevail, no measuring instruments or by country

3.7 Change in energy stocks

Energy stocks variation is the difference between the beginning of energy stocks and energy stocks is not between.

3.8 the amount of energy export business Energy export business is an enterprise in the reporting period the actual allocated, the number of turn energy supply. To apply for the allocation of the library and settlement procedures prevail.