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

SN/T 3997-2014

**Methods for sampling and sample preparation of laterite nickel
ores in bulk**

散装红土镍矿取样和样品制备方法

(English Translation)

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Foreword

This standard was drafted according to GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Liaoning Province Exit Inspection and Quarantine.

1 Scope

This standard specifies the bulk and preparation of laterite nickel ore quality characteristics of the sample was determined by the basic theory, basic principles, equipment and operating program.

This standard applies to sampling and sample preparation conveyors, trucks, bins, boats,

stockpile, container bags transport of bulk nickel laterite in.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2007.3 minerals in bulk sampling, test methods for sample preparation quality fluctuation General Evaluation GB/T 2007.4 bulk minerals for sampling and sample bias General, Experimental methods for checking the precision SN/T 2726-2010 Test Mineral Terminology

3 Terms and Definitions

Terms and definitions SN/T 2726-2010 defined apply to this document.

General Procedure 4

General Procedure 4.1 Sampling Throughout the consignment should be sampled during loading and unloading is carried out, the general procedure is as follows.

- a) verify that the sample delivery batch or part of the consignment;
- b) determine the maximum size of the consignment;
- c) maximum particle size is determined in accordance with the amount of sample parts;
- d) determining the type of quality fluctuations consignment of parts and the minimum number of samples;
- e) systematic sampling and stratified sampling to determine what kind of sampling intervals, two sampled for trucks or bins interval;
- f) to determine the sampling locations and take parts of such methods;
- g) determining the process of loading and unloading the consignment method has taken almost equal parts by mass of the sample.

General Procedure 4.2 Sample preparation Preparation of measuring sample quality characteristics, the general procedure is as follows.

- a) to determine the subsample or bulk sample method will increment the composition;
- b) the sample is determined by points or reuse;
- c) determine the sample preparation process and dividing the selected method;
- d) determining a sample and dividing, crushing, mixing and pre-drying (if required) and other sample preparation procedures;

e) Preparation of the samples according to the sample preparation procedure.