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

CJ/T 96-1999

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**General detecting methods for the chemical characteristic of
domestic refuse
(English Translation)**

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People's Republic of China**

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Foreword

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

This standard is CJ/T 96-1999 "Determination of organic waste municipal solid waste burning method", CJ/T 97-1999 "urban life Determination of total chromium rubbish diphenylcarbazide colorimetric ", CJ/T 98-1999" Determination of mercury in urban living garbage cold atomic absorption Spectrophotometry ", CJ/T 99-1999" urban living garbage pH measurement glass electrode method ", CJ/T 100-1999" urban life Determination of cadmium atomic absorption spectrophotometry ", CJ/T 101-1999" Determination of municipal solid waste lead by atomic absorption spectroscopy Photometric method ", CJ/T 102-1999" municipal solid wastes Determination of arsenic diethyldithiocarbamate silver spectrophotometry ", CJ/T 103-1999 "Determination of total domestic nitrogen in municipal solid waste semi-micro-Kaiser method", CJ/T 104-1999 "full of municipal solid waste Phosphorus Determination of ammonium molybdate spectrophotometry "and CJ/T 105-1999" Determination of total municipal waste solid potassium flame spectrophotometry "and so on.

10 standard integration and revision.

This standard compared with the original standard main technical changes are as follows.

- Determination of organic matter increased potassium dichromate oxidation;
- pH determination of the original name from the glass electrode method to the electrode method;
- Determination of total nitrogen increased nitrogen determination method;
- Determination of total phosphorus changed the pre-treatment method;
- Determination of total chromium increased flame atomic absorption spectrophotometry, inductively coupled plasma atomic emission spectrometry;
- Determination of mercury increased by atomic fluorescence spectrometry;
- Determination of arsenic increased by atomic fluorescence spectrometry;
- Determination of cadmium increased by graphite furnace atomic absorption spectrophotometry, inductively coupled plasma-atomic emission spectrometry;
- Determination of lead increased by graphite furnace atomic absorption spectrophotometry, inductively coupled plasma-atomic emission spectrometry;
- Increasing the elemental analyzer of carbon, hydrogen, oxygen, sulfur, nitrogen determination;
- Added Escherichia cocktail mixture - potassium thiocyanate titration method for the determination of chlorine;
- Increased quality control and quality assurance.

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Construction City Environmental Health Standardization Technical Committee.

1 Scope

This standard specifies the terms and definitions of the detection of chemical characteristics of domestic waste, sample collection and preparation, chlorine, organic matter, total chromium, mercury, pH Value, cadmium, lead, arsenic, total nitrogen, total phosphorus, total potassium, carbon, hydrogen, nitrogen, sulfur, oxygen and other 16 test methods and quality control and assurance.

This standard applies to the determination of chemical characteristics of domestic waste.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 601 chemical reagent standard titration solution preparation GB/T 6682 analytical laboratory water specifications and test methods GB/T 8170 rounded repair rules and limit values of the representation and judgment CJ/T 313 Garbage sampling and analysis methods

3 Terms and definitions

The following terms and definitions apply to this document.

Chemicalcharacteristic Substances in the chemical changes in the performance of the nature, such as acid, alkaline, stability, oxidation, reduction and so on.

Limit of detection A particular analytical method can detect the minimum concentration or minimum amount of a substance to be tested from a sample within a given confidence level.

Accuracy

Determination of the true value of the degree of compliance. The method of direct determination of standard samples or standard sample recovery can be analyzed Evaluation.

Precision

Under certain conditions, the degree of agreement between the results of the test carried out several times. The smaller the random error that affects the test results, try the higher the precision of the test results.

Relative standard deviation ralativestandarddeviation the ratio of the standard deviation to the absolute value of the arithmetic mean. In a limited number of samples measured (less than 10), standard deviation S press Formula (1) Calculation.

$S = \text{sum}$