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# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# SN/T 4024-2013

## Determination of sodium, potassium and vanadium content in coal tar oil and anthracene oil, Inductively coupled plasma atomic emission spectrometry

煤焦油和葱油中钠、钾和钒含量测定 电感耦合等离子体原子发射光谱法

**(English Translation)**

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## Foreword

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

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

This standard is mainly drafted by. People's Republic of China Shanxi Exit Inspection and Quarantine, Ningbo Entry-Exit Inspection and People's Republic of China Quarantine Bureau, People's Republic of China Shaanxi Exit Inspection and Quarantine.

## 1 Scope

This standard specifies the inductively coupled plasma atomic and coal tar anthracene oil, sodium, potassium and vanadium content of emission spectrophotometric method.

This standard is suitable for sodium, potassium and determination of coal tar and anthracene oil vanadium content, the measurement range of the elements shown in Table 1.

Table 1 Unit measurement range of each element in milligrams per kilogram

Range of elements

Sodium 1-100

1 to 100 K

1 ~ 400 V

## 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.



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Preparation of standard solution of GB/T 602 Determination of impurities in chemical reagents Laboratory use specifications and test methods GB/T 6682 Analysis

## 3 Method summary

Sample at high temperatures is completely ashed residue of the molten lithium tetraborate, hydrochloric acid to dissolve the melt. Inductively coupled plasma atomic emission Spectrum Determination of sodium, potassium and vanadium, external standard.

## 4 Reagents and materials

Unless otherwise stated, use only the gifted class pure reagents, the water should meet the two water GB/T 6682 stipulated.

**4.1**
lithium tetraborate.

**4.2**
hydrochloric acid (rho = 1.19g/mL).

**4.3**
hydrochloride (14).

**4.4**
Diluent. Weigh 20.0g ± 0.1g of lithium tetraborate (4.1) in 100mL platinum crucible in a muffle furnace at 1000 °C in Canada 5min to heat all melted, remove the coolish. Rinse the outer wall of platinum dish, and wipe with filter paper. Will be filled with melt platinum crucible placed There are 1000mL hydrochloric acid (4.3) in a beaker, stirring constantly with a plastic rod to melt completely dissolved. The solution was transferred to 2000mL container Volumetric flask, dilute to the mark, mix and stored in polyethylene bottles.

**4.5**
standard stock solution.

a) standard stock solution of sodium (1000mg/L). according to GB/T 602 method of preparation or direct use of national certified reference solution.



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