

ICS 75.040
CCS E21

SN

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

SN/T 3187-2012

**Determination of sodium, magnesium, aluminium, silicon,
calcium, vanadium, iron, nickel, copper, lead, arsenic in crude
oil. Wavelength dispersive X-ray fluorescence spectrometry
(English Translation)**

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Foreword

Accordance with the standards GB/T 1.1-2009, rules GB/T 20001.4-2001 given draft.

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, Ningbo Entry-Exit-Entry Inspection and People's Republic of China Fujian Quarantine Bureau.

1 Scope

This standard specifies the crude sodium, magnesium, aluminum, silicon, calcium, vanadium, iron, nickel, copper, lead, arsenic content - Wavelength dispersive X-ray fluorescence spectrometry method.

This standard applies not contain a non-solid paraffin or moisture content of not more than 0.5% of the crude oil, the measurement range as shown in Table 1.

Table 1 Measuring range

element

Measuring range

mg/kg

Na 12 ~ 100

Mg 10 ~ 100

Al 3 ~ 50

Si 3 ~ 50

Ca 3 ~ 50

V 2 ~ 200

Fe 2 ~ 200

Ni 2 ~ 200

Cu 2 ~ 50

As 2 ~ 50

Pb 2 ~ 50

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 16597 metallurgical product analysis X-ray Fluorescence Spectrometry General

3 Method summary

Measuring the intensity of X-ray fluorescence sample analyte characteristic spectral lines, according to a given X-ray fluorescence intensity and analyte content between Volume relationship, the choice of methods and mathematical regression calibration mode, calculate the amount of analyte.