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

SN/T 3789-2014

**Determination of aluminum, cobalt, copper, manganese, molybdenum,
nickel, phosphorus, sulfur, silicon, titanium in stainless steel -
Wavelength dispersive X-ray fluorescence spectrometry
(English Translation)**

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Foreword

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

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

This standard was drafted. Chongqing, People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the determination by wavelength dispersive X-ray fluorescence spectrometer stainless steel aluminum, cobalt, copper, manganese, molybdenum, nickel, phosphorus, sulfur, silicon, titanium method.

This standard applies to stainless steel, aluminum, cobalt, copper, manganese, molybdenum, nickel, phosphorus, sulfur, silicon, titanium measured, the measurement range (by mass) shown in Table 1.

Sheet aluminum, cobalt, copper, manganese, molybdenum, nickel, phosphorus, sulfur, silicon, titanium, stainless steel measurement range 1% Component mass fraction range Al 0.004 ~ 0.26 Co 0.003 ~ 0.19 Cu 0.01 ~ 0.52 Mn 0.13 ~ 1.98 Mo 0.05 ~ 1.14 Ni 0.01 ~ 16.41 P 0.005 ~ 0.044 S 0.002 ~ 0.302 Si 0.17 ~ 1.26 Ti 0.01 ~ 1.03

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 GB/T 20066 Steel and iron - Sampling and determination of the chemical composition of the sample with a sample preparation method

3 Method summary

Under the selected instrument measurement conditions, the sample is measured X-ray fluorescence intensity measured elements characteristic lines, according to the X-ray fluorescence intensity Quantitative relationship between the content of the analyte, the choice of methods and mathematical regression calibration mode, access to the content of the analyte.

4 Reagents and materials

4.1

P10 gas. 90% of the mixed gas of argon and 10% methane.