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SN

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

SN/T 3604-2013

**Determination of copper, silicon, manganese, zinc, aluminum
and iron in zinc concentrate ore. X-ray fluorescence
spectrometry**

(English Translation)

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Foreword

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

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

This standard was drafted. People's Republic of China Guangdong CIQ.

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Zinc concentrate copper, silicon, magnesium, zinc, aluminum, Determination of iron content X-ray Fluorescence Spectrometry

1 Scope

This standard specifies the X-ray fluorescence spectrometric method zinc concentrate copper, silicon, magnesium, zinc, aluminum and iron content.

This standard applies to zinc concentrate and zinc ores - Determination of the content of the following ingredients, measuring range in Table 1.

Table 1 zinc concentrate in the measurement range of each component% (mass fraction)

Component measurement range Cu 0.11 ~ 0.75 SiO₂ 2.16 ~ 33.01 MgO 0.085 ~ 0.96 Zn 20.41 ~ 52.70 Al₂O₃ 0.57 ~ 7.66 Fe 4.13 ~ 15.20 S 15.16 ~ 32.00 Pb 1.44 ~ 3.90 CaO 0.96 ~ 4.65 as 0.064 ~ 0.21 K₂O 0.18 ~ 2.13 Cd 0.054 ~ 0.13 Mn 0.025 ~ 0.26 Note. This standard Determination of zinc concentrate by S Pb CaO, As, K₂O Cd, content,,, Mn component, just as the results of the analysis in the laboratory, not as a subject the results of the survey report.

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 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement method to repeat of the basic methods of reproduction Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 16597 metallurgical product analysis X-ray Fluorescence Spectrometry General

3 Method summary

Powder samples were prepared by pre-oxidation treatment, casting with a suitable flux to be suitable for X-ray fluorescence spectrometer to measure the shape of the glass sheet.
Measurement