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PEOPLE'S REPUBLIC OF CHINA

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**Limit on element content of lead, arsenic, cadmium,
mercury, fluorine and chlorine in iron ore**

铁矿石中铅、砷、镉、汞、氟和氯含量的限量

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Limit on element content of lead, arsenic, cadmium, mercury, fluorine and chlorine in iron ore

1 Scope

This Standard specifies the limit on element content of lead, arsenic, cadmium, mercury, fluorine and chlorine in iron ore, sampling, sample preparation as well as determination methods.

This Standard is applicable to natural and processed iron ore for steel smelting.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 6730.26, *Iron ores - Determination of fluorine content - Thorium nitrate titrimetric method*

GB/T 6730.27, *Iron ores - Determination of fluorine content – Lanthanum-alizarin complexion spectrophotometric method*

GB/T 6730.28, *Iron ores - Determination of fluorine content - Ion-selective electrode method*

GB/T 6730.42, *Iron ores - Determination of lead content - Dithizone spectrophotometric method*

GB/T 6730.45, *Iron ores - Determination of arsenic content - Arsenomolybdenum blue spectrophotometric method after hydrogen arsenide separation*

GB/T 6730.46, *Iron ores - Determination of arsenic content - Arsenomolybdenum blue spectrophotometric method after the distillation separation*

GB/T 6730.54, *Iron ores - Determination of lead content - Flame atomic absorption spectrometric method*

GB/T 6730.67, *Iron ores - Determination of arsenic content - Hydride generation atomic absorption spectrometric method*

GB/T 6730.69, *Iron ores - Determination of fluoride and chloride content - Ion chromatography*

GB/T 6730.72, *Iron ores - Determination of arsenic, chromium, cadmium, lead and mercury content - Inductively coupled plasma-mass spectrometry method (ICP-MS)*

GB/T 10322.1, *Iron ores - Sampling and sample preparation procedures*

GB/T 20565, *Iron ores and direct reduced iron - Vocabulary*

GB/T 31947, *Iron ores - Determination of mercury content - Solid sampling and direct mercury analysis method*

SN/T 2262, *Determination of aluminum, arsenic, calcium, copper, magnesium, manganese, phosphorus, lead, zinc in iron ores. Inductively coupled plasma atomic emission spectrometry*

SN/T 2680, *Determination of arsenic mercury cadmium lead bismuth in iron ores - Atomic fluorescence spectrometric method*

SN/T 2765.3, *Simultaneous determination of arsenic and mercury content in iron ores. Microwave-assisted digestion-atomic fluorescence spectrometry*

SN/T 2765.4, *Determination of arsenic in iron ores for import and export - Part 4: Hydride generation atomic absorption spectrometric method*

SN/T 3004, *Determination of Mercury Content in Iron Ores. Microwave Digestion - Cold Atomic Absorption Spectrophotometry Method*

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 20565 apply.

4 Requirements for limit

4.1 The content of lead in iron ore (mass fraction) is not more than 0.60%.

4.2 The content of arsenic (mass fraction) in iron ore is not more than 0.45%.

4.3 The content of cadmium (mass fraction) in iron ore is not more than 0.40%.

4.4 The content of mercury (mass fraction) in iron ore is not more than 0.05%.

4.5 The content of fluorine (mass fraction) in iron ore is not more than 4.50%.

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