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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YB/T 5241-2014

Iron-nickel and iron-nickel-cobalt alloys with low expansion

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(English Translation)

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YB/T 5241-2014 was issued by Ministry of Industry and Information Technology on 14 October 2014.

2 Scope

This standard specifies the dimensions, shapes, technical requirements, test methods, inspection rules, packaging, marking and quality certificates of bars, strips, flat bars, wires and pipes made of iron-nickel alloy of Grade 4J36, free-cutting alloy of Grade 4J38 and iron-nickel-cobalt alloys of Grades 4J32, 4J32A and 4J40. This standard is applicable to the manufacture of low-expansion iron-nickel and iron-nickel-cobalt alloys for instrument parts of approximately constant dimension and high precision within a certain range of ambient temperature.

3 Normative references

GB/T 223.3 - Methods for chemical analysis of iron, steel and alloy - The diantipyryl methane phosphomolybdate gravimetric method for the determination of phosphorus content

GB/T 223.18 - Methods for chemical analysis of iron, steel and alloy - The sodium thiosulfate separation iodimetric method for the determination of copper content

GB/T 223.19 - Methods for chemical analysis of iron, steel and alloy - The neocuproine-chloroform extraction photometric method for the determination of copper content

GB/T 223.20 - Methods for chemical analysis of iron, steel and alloy - The fotentiometric

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titration method for the determination of cobalt content

GB/T 223.21 - Methods for chemical analysis of iron, steel and alloy - The 5-Cl-PADAB spectrophotometricmethod for the determination of cobalt content

GB/T 223.22 - Methods for chemical analysis of iron, steel and alloy - The nitroso-R-salt spectrophotometric method for the determination of cobalt content

GB/T 223.25 - Methods for chemical analysis of iron, steel and alloy - The dimethylglyoxime gravimetric method for the determination of nickel content

GB/T 223.40 - Iron, steel and alloy - Determination of niobium content - The sulphochlorophenol S spectrophotometric method

GB/T 223.52 - Methods for chemical analysis of iron, steel and alloy - The hydroxylamine hydrochloride-iodometric method for the determination of selenium content

GB/T 223.59 - Methods for chemical analysis of iron, steel and alloy - The reduced molybdoantimonyl phosphoric acid photometric method for the determination of phosphorus content

GB/T 223.60 - Methods for chemical analysis of iron, steel and alloy - The perchloric acid dehydration gravimetric method for the determination of silicon content

GB/T 223.62 - Methods for chemical analysis of iron, steel and alloy - The butyl acetate extraction photometric method for the determination of phosphorus content

GB/T 223.63 - Methods for chemical analysis of iron, steel and alloy - The sodium (potassium) periodate photometric method for the determination of manganese content

GB/T 223.67 - Iron, steel and alloy - Determination of sulfur content - Methylene blue spectrophotometric method

GB/T 223.68 - Methods for chemical analysis of iron, steel and alloy - The potassium iodate titration method after combustion in the pipe furnace for the determination of sulfur content

4 About this standard

Sector: Ferrous Metallurgy

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

5 Classification and status

Prefix YB/T: recommended standard.

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