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ICS 77.140.50
CCS H46

YB

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YB/T 6421-2025

Cold-rolled bottom-layer-free grain-oriented electrical steel strip (sheet) for electric vehicle driving motor

电动汽车驱动电机用冷轧无底层取向电工钢带（片）

(English Translation)

Issued on: December 17, 2025 **Implemented on: July 1, 2026**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yb-t-6421-2025

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1 Foreword

YB/T 6421-2025 was issued by Ministry of Industry and Information Technology on 17 December 2025 and has been in force since 1 July 2026.

The YB/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the symbols and grades, ordering contents, general requirements, technical requirements, inspection and testing, re-inspection and judgment rules, packaging, marking, and quality certificates for cold-rolled non-oriented electrical steel strips (sheets) for electric vehicle drive motors. This standard applies to cold-rolled magnesium-silicate-free oriented electrical steel strips (sheets) with nominal thicknesses of 0.20mm, 0.23mm, and 0.27mm for manufacturing stators of electric vehicle drive motors. Cold-rolled magnesium-silicate-free undercoat steel strips (sheets) for other applications can also be used as a reference.

YB/T 6421-2025 falls under ICS 77.140.50, in the field of metallurgy.

This catalogue holds 971 other YB/T standards in that field.

In this catalogue, YB/T standards carry edition years from 1980 to 2026.

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3 About this standard

Sector: Ferrous Metallurgy Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

GB/T 5313-2023 - Steel plate with through-thickness properties

GB/T 6653-2017 - Steel plates and strips for welded gas cylinders

YB/T 5063-2007 - Heat Treatment Spring Steel Strips

YB/T 6422-2025 - Continuously hot-dip zinc-aluminum-magnesium alloy coated steel sheet and strip for photovoltaic stents

YB/T 6420-2025 - Atmospheric corrosion resisting steel plate for urban monorail transit system

YB/T 6419-2025 - High strength low alloy cold rolled steel sheet and strip

5 Classification and status

International classification (ICS): 77.140.50

Chinese Standard Classification (CCS): H 46

Prefix YB/T: recommended standard.

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