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ICS 77.140.50

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COLD ROLLED ELECTRICAL NON-ALLOY AND ALLOY STEEL SHEET AND STRIP DELIVERED IN THE SEMI-PROCESSED STATE

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EUROPEAN STANDARD

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EN 10341

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Supersedes EN 10126:1995, EN 10165:1995

English Version

Cold rolled electrical non-alloy and alloy steel sheet and strip delivered in the semi-processed state

Bandes et tôles magnétiques laminées à froid en acier non allié et en acier allié livrées à l'état semi-fini

Kaltgewalztes Elektroblech und -band aus unlegierten und legierten Stählen im nicht schlussgeglühten Zustand

This European Standard was approved by CEN on 20 April 2006.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Foreword

This document (EN 10341:2006) has been prepared by Technical Committee ECISS/TC 24 “Electrical steel sheet and strip qualities - Qualities, dimensions, tolerances and specific tests”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2006, and conflicting national standards shall be withdrawn at the latest by November 2006.

This document supersedes EN 10126:1995 and EN 10165:1995.

This document is based on IEC 60404-8-3:2005 which was technically changed.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Introduction

This document has been prepared by merging EN 10126:1995 and EN 10165:1995, taking into consideration corresponding decisions of IEC/TC 68 on relevant IEC documents IEC 60404-8-2:1998 and IEC 60404-8-3:1998 which are being merged at the same time. The merged document published as IEC 60404-8-3:2005 was the basis of this European Standard.

The intention of this merging was to specify no longer non-alloy and alloy steel grades for cold rolled electrical steel sheet and strip, but to leave the type of steel open. Therefore, it has been decided to use a new letter "K" instead of previous used "D" or "E" for the designation of electrical steels specified in this European Standard.

The dew point of the gas used for the heat treatment specified in 7.1.1 is + 20 °C ± 2 °C at atmospheric pressure. This is the value stated in EN 10165:1995 but it differs from the temperature of + 35 °C stated in EN 10126:1995.

As the final annealing of cold-rolled electrical non-alloy and alloy steel sheet and strip delivered in the semi-processed state is the responsibility of the purchaser, attention is drawn to the importance of this treatment for the properties of the material.

For this reason the magnetic properties in Table 1 are given for a reference condition (see 7.1.1) obtained by a suitable heat treatment. To ensure that the properties in use are equivalent to those specified, it is important that the heat treatment carried out by the user is equivalent to that used to define the reference condition.

It is recognized that these materials may be used in the semi-processed state, in which case the magnetic properties are not subject to the specifications of this standard.

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