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An American National Standard

Standard Specification for Cold-Rolled Magnetic Lamination Quality Steel, Semiprocessed Types¹

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1. Scope

1.1 This specification covers cold-rolled carbon sheet steel used for magnetic applications. These products, commonly called “cold-rolled magnetic lamination steel” (CRML) are usually intended for applications in which the stamped laminations or assembled core structures for electrical equipment are annealed to develop the desired core loss and permeability characteristics.

1.2 By using appropriate lamination annealing practices, the purchaser can optimize magnetic properties for the various types.

1.3 A nonguaranteed core-loss type is usually made to controlled chemical composition. Magnetic properties are not guaranteed by the producer.

1.4 Higher quality core-loss types are made to controlled chemical composition and are usually given critical reduction on a temper mill to yield specified magnetic properties after a suitable lamination anneal. These products, typically called semiprocessed lamination steel, are classified by the ASTM Code Letter D in accordance with Practice A 664.

1.5 The values stated in either customary (cgs-emu and inch-pound) units or SI units are to be regarded separately as standard. The values given in parentheses are mathematical conversions to SI units which are shown in brackets. The values stated in each system provided for information only and are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with this specification. considered standard.

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This specification is under the jurisdiction of ASTM Committee A-6 on Magnetic Properties and is the direct responsibility of Subcommittee A06.02 on Material Specifications.

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