

**Volume 03.04, April 2007**  
**Magnetic Properties**

**Standards and Related Materials Contained in this Volume:**

[\(Click here for a list of withdrawn standards\)](#)

[A34/A34M-06 Standard Practice for Sampling and Procurement Testing of Magnetic Materials - \(View Full Text\)](#)

[A340-03a Standard Terminology of Symbols and Definitions Relating to Magnetic Testing - \(View Full Text\)](#)

[A341/A341M-00\(2005\) Standard Test Method for Direct Current Magnetic Properties of Materials Using D-C Permeameters and the Ballistic Test Methods - \(View Full Text\)](#)

[A342/A342M-04 Standard Test Methods for Permeability of Feebly Magnetic Materials - \(View Full Text\)](#)

[A343/A343M-03 Standard Test Method for Alternating-Current Magnetic Properties of Materials at Power Frequencies Using Wattmeter-Ammeter-Voltmeter Method and 25-cm Epstein Test Frame - \(View Full Text\)](#)

[A345-04 Standard Specification for Flat-Rolled Electrical Steels for Magnetic Applications - \(View Full Text\)](#)

[A348/A348M-05 Standard Test Method for Alternating Current Magnetic Properties of Materials Using the Wattmeter-Ammeter-Voltmeter Method, 100 to 10 000 Hz and 25-cm Epstein Frame - \(View Full Text\)](#)

[A596/A596M-95\(2004\) Standard Test Method for Direct-Current Magnetic Properties of Materials Using the Ballistic Method and Ring Specimens - \(View Full Text\)](#)

[A598/A598M-02 Standard Test Method for Magnetic Properties of Magnetic Amplifier Cores - \(View Full Text\)](#)

[A664-06e1 Standard Practice for Identification of Standard Electrical Steel Grades in ASTM Specifications - \(View Full Text\)](#)

[A677-05e1 Standard Specification for Nonoriented Electrical Steel Fully Processed Types - \(View Full Text\)](#)

[A683-05e1 Standard Specification for Nonoriented Electrical Steel, Semiprocessed Types - \(View Full Text\)](#)

[A697/A697M-03 Standard Test Method for Alternating Current Magnetic Properties of Laminated Core Specimen Using Voltmeter-Ammeter-Wattmeter Methods - \(View Full Text\)](#)

[A698/A698M-02 Standard Test Method for Magnetic Shield Efficiency in Attenuating Alternating Magnetic Fields - \(View Full Text\)](#)

[A712-97\(2002\) Standard Test Method for Electrical Resistivity of Soft Magnetic Alloys - \(View Full Text\)](#)

[A717/A717M-06 Standard Test Method for Surface Insulation Resistivity of Single-Strip Specimens - \(View Full Text\)](#)

[A719/A719M-02 Standard Test Method for Lamination Factor of Magnetic Materials - \(View Full Text\)](#)

[A720/A720M-02 Standard Test Method for Ductility of Nonoriented Electrical Steel - \(View Full Text\)](#)

[A721/A721M-02 Standard Test Method for Ductility of Oriented Electrical Steel - \(View Full Text\)](#)

[A726-05 Standard Specification for Cold-Rolled Magnetic Lamination Quality Steel, Semiprocessed Types - \(View Full Text\)](#)

[A753-02 Standard Specification for Wrought Nickel-Iron Soft Magnetic Alloys \(UNS K94490, K94840, N14076, N14080\) - \(View Full Text\)](#)

[A772/A772M-00\(2005\) Standard Test Method for ac Magnetic Permeability of Materials Using Sinusoidal Current - \(View Full Text\)](#)

[A773/A773M-01 Standard Test Method for dc Magnetic Properties of Materials Using Ring and Permeameter Procedures with dc Electronic Hysteresigraphs - \(View Full Text\)](#)

[A801-04 Standard Specification for Wrought Iron-Cobalt High Magnetic Saturation Alloys \(UNS R30005 and K92650\) - \(View Full Text\)](#)

[A804/A804M-04 Standard Test Methods for Alternating-Current Magnetic Properties of Materials at Power Frequencies Using Sheet-Type Test Specimens - \(View Full Text\)](#)

[A811-03 Standard Specification for Soft Magnetic Iron Parts Fabricated by Powder Metallurgy \(P/M\) Techniques - \(View Full Text\)](#)

[A838-02 Standard Specification for Free-Machining Ferritic Stainless Soft Magnetic Alloy Bar for Relay Applications - \(View Full Text\)](#)

[A839-02 Standard Specification for Iron-Phosphorus Powder Metallurgy \(P/M\) Parts for Soft Magnetic Applications - \(View Full Text\)](#)

[A840-06 Standard Specification for Fully Processed Magnetic Lamination Steel - \(View Full Text\)](#)

[A848-01\(2006\) Standard Specification for Low-Carbon Magnetic Iron - \(View Full Text\)](#)

[A867-03 Standard Specification for Iron-Silicon Relay Steels - \(View Full Text\)](#)

[A876-03 Standard Specification for Flat-Rolled, Grain-Oriented, Silicon-Iron, Electrical Steel, Fully Processed Types - \(View Full Text\)](#)

[A889/A889M-03 Standard Test Method for Alternating-Current Magnetic Properties of Materials at Low Inductions Using the Wattmeter-Varmeter-Ammeter-Voltmeter Method and 25-cm \(250-mm\) Epstein Frame - \(View Full Text\)](#)

[A893/A893M-03 Standard Test Method for Complex Dielectric Constant of Nonmetallic Magnetic Materials at Microwave Frequencies - \(View Full Text\)](#)

[A894/A894M-00\(2005\) Standard Test Method for Saturation Magnetization or Induction of Nonmetallic Magnetic Materials - \(View Full Text\)](#)

[A900/A900M-01\(2006\) Standard Test Method for Lamination Factor of Amorphous Magnetic Strip - \(View Full Text\)](#)

[A901-03 Standard Specification for Amorphous Magnetic Core Alloys, Semi-Processed Types - \(View Full Text\)](#)

[A904-04 Standard Specification for 50 Nickel-50 Iron Powder Metallurgy \(P/M\) Soft Magnetic Parts - \(View Full Text\)](#)

[A912/A912M-04 Standard Test Method for Alternating-Current Magnetic Properties of Amorphous Materials at Power Frequencies Using Wattmeter-Ammeter-Voltmeter Method with Toroidal Specimens - \(View Full Text\)](#)

[A927/A927M-04 Standard Test Method for Alternating-Current Magnetic Properties of Toroidal Core Specimens Using the Voltmeter-Ammeter-Wattmeter Method - \(View Full Text\)](#)

[A932/A932M-01\(2006\) Standard Test Method for Alternating-Current Magnetic](#)

[Properties of Amorphous Materials at Power Frequencies Using Wattmeter-Ammeter-Voltmeter Method with Sheet Specimens - \(View Full Text\)](#)

[A937/A937M-06 Standard Test Method for Determining Interlaminar Resistance of Insulating Coatings Using Two Adjacent Test Surfaces - \(View Full Text\)](#)

[A971/A971M-05 Standard Test Method for Measuring Edge Taper and Crown of Flat-Rolled Electrical Steel Coils - \(View Full Text\)](#)

[A976-03 Standard Classification of Insulating Coatings by Composition, Relative Insulating Ability and Application - \(View Full Text\)](#)

[A977/A977M-02 Standard Test Method for Magnetic Properties of High-Coercivity Permanent Magnet Materials Using Hysteresigraphs - \(View Full Text\)](#)

[A1009-05 Standard Specification for Soft Magnetic MnZn Ferrite Core Materials for High Frequency \(10 kHz-1 MHz\) Power Transformer and Filter Inductor Applications - \(View Full Text\)](#)

[A1013-00\(2005\) Standard Test Method for High-Frequency \(10 kHz-1 MHz\) Core Loss of Soft Magnetic Core Components at Controlled Temperatures Using the Voltmeter-Ammeter-Wattmeter Method - \(View Full Text\)](#)

[A1036-04 Standard Guide for Measuring Power Frequency Magnetic Properties of Flat-Rolled Electrical Steels Using Small Single Sheet Testers - \(View Full Text\)](#)

[SI Quick Reference Guide: International System of Units \(SI\) - \*The Modern Metric System\* - \(View Full Text\)](#)

### **Withdrawn Standards**

A883/A883M Standard Test Method for Ferrimagnetic Resonance Linewidth and Gyromagnetic Ratio of Nonmetallic Magnetic Materials (Withdrawn 2006) No Replacement