LAMINATION STEELS THIRD EDITION

Complete Material Listing

The list on the following pages details all of the materials for which values for Magnetization, B–H, or Core Loss, C/L, can be found on the Lamination Steels Third Edition CD-ROM. Also noted are the thickness and frequencies for which data is provided for each material type and grade. All AC properties were developed under sinusoidal excitation and all properties, with the exception of Imphy Alloys Supra 50 nickel-iron alloy, were developed at room temperature.

The following material types and producers can be found on the Lamination Steels Third Edition CD-ROM:

Cold-Rolled Motor Lamination Steels
- Mittal Steel USA
- United States Steel

Non-Oriented Silicon Steels
- AK Steel
- Arcelor Mittal
- Cogent Power
- JFE Steel

Thin-Gauge Silicon Steels
- ArcelorMittal
- Arnold Magnetic Technologies
- Cogent Power
- JFE Steel

Nickel-Iron Alloys
- Carpenter Technology
- Imphy Alloys
- Spang Specialty Metals
- Vacuumschmelze

Cobalt-Iron Alloys
- Carpenter Technology
- Imphy Alloys
- Vacuumschmelze

Powedered Alloys
- Höganäs AB

Amorphous Alloys
- Metglas, Inc.

Grain-Oriented Silicon Steels
- AK Steel

For additional information about EMERF and the Lamination Steels Research Project, please contact:

EMERF
Electric Motor Education & Research Foundation

The Electric Motor Education and Research Foundation
P.O. Box P182
South Dartmouth, Massachusetts 02748
tel: 508.979.5935 fax: 508.979.5845 email: info@smma.org
www.smma.org/emerf.html

Cold-Rolled Motor Lamination Steels

Mittal Steel USA (formerly Inland Steel and Ispat Inland Steel)

Grade 1.75-1700 .0185 inch (.47 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 20–400 Hz
Grade 1.75-1700 .0185 inch (.47 mm, 26 gauge)
Comparison of Semi-Processed/Annealed and Unannealed, B–H and C/L: 60 Hz

Grade 1.90-1700 .0185 inch (.47 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 1.90-1700 .0185 inch (.47 mm, 26 gauge)
Comparison of Semi-Processed/Annealed and Unannealed, 60 Hz, B–H and C/L: 60 Hz
Grade 1.90-1700 .022 inch (.56 mm, 25 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 1.90-1700 .031 inch (.79 mm, 22 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz

Grade 2.25-2000 .0185 inch (.47 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 2.25-2000 .0185 inch (.47 mm, 26 gauge)
Comparison of Semi-Processed/Annealed and Unannealed, B–H and C/L: 60 Hz
Grade 2.25-2000 .022 inch (.56 mm, 25 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz

Grade 2.37-2000 .020 inch (.51 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 20–400 Hz
Grade 2.37-2000 .020 inch (.51 mm, 26 gauge)
Comparison of Semi-Processed/Annealed and Unannealed, B–H and C/L: 60 Hz
Grade 2.37-2000 .023 inch Semi-Processed/Annealed, B–H and C/L: 20–400 Hz

Grade 2.50-2000 ELC .020 inch (.51 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ELC .022 inch (.56 mm, 25 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ELC .022 inch (.56 mm, 25 gauge)
Comparison of Semi-Processed/Annealed and Unannealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ELC .025 inch (.64 mm, 24 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ELC .028 inch (.71 mm, 23 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ELC .031 inch (.79 mm, 22 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz

Grade 2.50-2000 ULC .020 inch (.51 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ULC .022 inch (.56 mm, 25 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ULC .025 inch (.64 mm, 24 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ULC .028 inch (.71 mm, 23 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ULC .028 inch (.71 mm, 23 gauge)
Comparison of Semi-Processed/Annealed and Unannealed, B–H and C/L: 60 Hz
Grade 2.50-2000 ULC .031 inch (.79 mm, 22 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz

Grade CQ .025 inch (.64 mm, 24 gauge) Semi-Processed/Annealed, B–H and C/L: 60 Hz
Grade CQ .028 inch (.71 mm, 23 gauge) Semi-Processed/Annealed, B–H and C/L: 20–400 Hz
Grade CQ .028 inch (.71 mm, 23 gauge)
Comparison of Semi-Processed/Annealed and Unannealed, B–H and C/L: 60 Hz

United States Steel

Grade Q-Core .0185 inch (.47 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz
Grade Q-Core .025 inch (.64 mm, 24 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz
Grade Q-Core .028 inch (.71 mm, 23 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz

Grade Q-Core II .018 inch (.46 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz
Grade Q-Core II .022 inch (.56 mm, 25 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz
Grade Q-Core II .025 inch (.64 mm, 24 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz
Grade Q-Core II .028 inch (.71 mm, 23 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz

Cold-Rolled Motor Lamination Steels, United States Steel, continued

Grade Q-Core II .031 inch (.79 mm, 22 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz

Grade Q-Core III .025 inch (.64 mm, 24 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz

Grade Q-Core P19 .018 inch (.46 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz

Grade Q-Core P21 .0185 inch (.47 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz
Grade Q-Core P21 .025 inch (.64 mm, 24 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz

Grade Q-Core XL .0138 inch (.35 mm, 29 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz
Grade Q-Core XL .018 inch (.46 mm, 26 gauge) Semi-Processed/Annealed, B–H and C/L: 20–1000 Hz

Grade Type 1 .024 inch (.61 mm, 24 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz

Grade Type 2S .022 inch (.56 mm, 25 gauge)Semi-Processed/Annealed, B–H and C/L: 50–400 Hz
Grade Type 2S .025 inch (.64 mm, 24 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz
Grade Type 2S .028 inch (.71 mm, 23 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz

Grade Full Hard .029 inch (.74 mm, 23 gauge) Semi-Processed/Annealed, B–H and C/L: 50–400 Hz

Non-Oriented Silicon Steels

AK Steel (formerly Armco Steel)

Di-Max M-15 .014 inch (.36 mm, 29 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz
Di-Max M-15 .0185 inch (.47 mm, 26 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz

Di-Max M-19 .014 inch (.36 mm, 29 gauge) Fully-Processed, B-H: DC–2000 Hz, C/L: 50–2000 Hz
Di-Max M-19 .0185 inch (.47 mm, 26 gauge) Fully-Processed, B-H: DC–2000 Hz, C/L: 50–2000 Hz
Di-Max M-19 .025 inch (.64 mm, 24 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz

Di-Max M-27 .014 inch (.36 mm, 29 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz
Di-Max M-27 .0185 inch (.47 mm, 26 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz
Di-Max M-27 .025 inch (.64 mm, 24 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz

Di-Max M-36 .014 inch (.36 mm, 29 gauge) Fully-Processed, B-H: DC–2000 Hz, C/L: 50–2000 Hz
Di-Max M-36 .0185 inch (.47 mm, 26 gauge) Fully-Processed, B-H: DC–2000 Hz, C/L: 50–2000 Hz
Di-Max M-36 .025 inch (.64 mm, 24 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz

Di-Max M-43 .0185 inch (.47 mm, 26 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz
Di-Max M-43 .0185 inch (.47 mm, 26 gauge) Semi-Processed/Annealed, B-H: DC–2000 Hz, C/L: 50–2000 Hz
Di-Max M-43 .0185 inch (.47 mm, 26 gauge)
Comparison of Semi-Processed/Annealed and Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz
Di-Max M-43 .025 inch (.64 mm, 24 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz

Di-Max M-45 .014 inch (.36 mm, 29 gauge) Fully-Processed, B-H: DC–2000 Hz, C/L: 50–2000 Hz
Di-Max M-45 .0185 inch (.47 mm, 26 gauge) Fully-Processed, B–H: DC
Di-Max M-45 .025 inch (.64 mm, 24 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz

Di-Max M-47 .0185 inch (.47 mm, 26 gauge) Semi-Processed/Annealed, B-H: DC–2000 Hz, C/L: 50–2000 Hz
Di-Max M-47 .025 inch (.64 mm, 24 gauge) Semi-Processed/Annealed, B–H: DC & 60 Hz, C/L: 60 Hz
Di-Max M-47 .025 inch (.64 mm, 24 gauge) Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz
Di-Max M-47 .025 inch (.64 mm, 24 gauge)
Comparison of Semi-Processed/Annealed and Fully-Processed, B–H: DC & 60 Hz, C/L: 60 Hz

Non-Oriented Silicon Steels, continued

ArcelorMittal (formerly Arcelor FCS)

.35 mm (.014 inch, 29 gauge)
- M235-35A Fully-Processed, B–H and C/L: 50–700 Hz
- M270-35A Fully-Processed, B–H and C/L: 50–700 Hz
- M300-35A Fully-Processed, B–H and C/L: 50–700 Hz
- M800-35A Fully-Processed, B–H and C/L: 50–700 Hz

.50 mm (.0195 inch, 26 gaquge)
- M250-50A Fully-Processed, B–H and C/L: 50–1500 Hz
- M270-50A Fully-Processed, B–H and C/L: 50–1500 Hz
- M290-50A Fully-Processed, B–H and C/L: 50–600 Hz
- M310-50A Fully-Processed, B–H and C/L: 50–1500 Hz
- M330-50A Fully-Processed, B–H and C/L: 50–2000 Hz
- M350-50A Fully-Processed, B–H and C/L: 50–700 Hz
- M400-50A Fully-Processed, B–H: 10–700 Hz, C/L: 10–1200 Hz
- M400P-50 Fully-Processed, B–H: 50–600 Hz, C/L: 50–700 Hz
- M400XP-50 Fully-Processed, B–H and C/L: 50–2500 Hz
- M470-50A Fully-Processed, B–H and C/L: 50–700 Hz
- M530-50A Fully-Processed, B–H and C/L: 50–700 Hz
- M530P-50 Fully-Processed, B–H and C/L: 50–1500 Hz
- M600-50A Fully-Processed, B–H and C/L: 50–700 Hz
- M800-50A Fully-Processed, B–H: 10–700 Hz, C/L: 10–1200 Hz
- M940-50A Fully-Processed, B–H and C/L: 50–700 Hz

.65 mm (.0255 inch, 24 gauge)
- M310-65A Fully-Processed, B–H and C/L: 50–700 Hz
- M330-65A Fully-Processed, B–H and C/L: 50–700 Hz
- M350-65A Fully-Processed, B–H and C/L: 50–700 Hz
- M400-65A Fully-Processed, B–H: 1–700 Hz, C/L: 10–1200 Hz
- M470-65A Fully-Processed, B–H and C/L: 50–700 Hz
- M470P-65 Fully-Processed, B–H and C/L: 50–700 Hz
- M530-65A Fully-Processed, B–H and C/L: 50–700 Hz
- M600-65A Fully-Processed, B–H and C/L: 50–700 Hz
- M700-65A Fully-Processed, B–H: 10–700 Hz, C/L: 10–1200 Hz
- M1000-65A Fully-Processed, B–H and C/L: 50–700 Hz

1.0 mm (.039 inch, 19 gauge)
- M600-100A Fully-Processed, B–H and C/L: 50–700 Hz
- M800-100A Fully-Processed, B–H & C/L: 10–1200 Hz
- M1300-100A Fully-Processed, B–H and C/L: 50–700 Hz

Non-Oriented Silicon Steels, continued

Cogent Power (formerly Surahammars Bruk)

.35 mm (.014 inch, 29 gauge)
- M235-35A (36F135) Fully-Processed, B–H: 50 & 60 Hz, C/L: 50–2500 Hz
- M270-35A (36F145) Fully-Processed, B–H: 50 & 60 Hz, C/L: 50–2500 Hz
- M250-35A (36F155) Fully-Processed, B–H 50 & 60 Hz, C/L: 50–2500 Hz
- M300-35A (36F175) Fully-Processed, B–H 50 & 60 Hz, C/L: 50–2500 Hz
- M330-35A (36F185) Fully-Processed, B–H: 50 & 60 Hz, C/L: 50–2500 Hz
- M700-35A Fully-Processed, B–H & C/L: 50 Hz

.50 mm (.0195 inch, 26 gauge)
- M250-50A (47F145) Fully-Processed, B–H 50 & 60 Hz, C/L: 50–2500 Hz
- M270-50A (47F155) Fully-Processed, B–H 50 & 60 Hz, C/L: 50–2500 Hz
- M290-50A (47F165) Fully-Processed, B–H 50 & 60 Hz, C/L: 50–2500 Hz
- M310-50A (47F180) Fully-Processed, B–H 50 & 60 Hz, C/L: 50–2500 Hz
- M330-50A (47F190) Fully-Processed, B–H 50 & 60 Hz, C/L: 50–2500 Hz
- M350-50A (47F200) Fully-Processed, B–H 50 & 60 Hz, C/L: 50–2500 Hz
- M400-50A (47F240) Fully-Processed, B–H 50 & 60 Hz, C/L: 50–2500 Hz
- M470-50A (47F280) Fully-Processed, B–H & C/L: 50 & 60 Hz
- M530-50A Fully-Processed, B–H & C/L: 50 Hz
- M600-50A (47F340) Fully-Processed, B–H & C/L: 50 & 60 Hz
- M700-50A Fully-Processed, B–H & C/L: 50 Hz
- M800-50A Fully-Processed, B–H & C/L: 50 Hz
- M940-50A Fully-Processed, B–H & C/L: 50 Hz
- M530-50HP Fully-Processed, B–H & C/L: 50 Hz

.65 mm (.0255 inch, 24 gauge)
- M310-65A Fully-Processed, B–H & C/L: 50 Hz
- M330-65A (64F190) Fully-Processed, B–H & C/L: 50 & 60 Hz
- M350-65A (64F200) Fully-Processed, B–H & C/L: 50 & 60 Hz
- M400-65A (64F235) (64F190) Fully-Processed, B–H & C/L: 50 & 60 Hz
- M470-65A (64F275) Fully-Processed, B–H & C/L: 50 & 60 Hz
- M530-65A (64F320) Fully-Processed, B–H & C/L: 50 & 60 Hz
- M600-65A Fully-Processed, B–H & C/L: 50 Hz
- M700-65A (64F400) Fully-Processed, B–H & C/L: 50 & 60 Hz
- M800-65A Fully-Processed, B–H & C/L: 50 Hz
- M1000-65A Fully-Processed, B–H & C/L: 50 Hz
- M600-65HP Fully-Processed, B–H & C/L: 50 Hz

1.0 mm (.039 inch, 19 gauge)
- M600-100A Fully-Processed, B–H & C/L: 50 Hz
- M700-100A Fully-Processed, B–H & C/L: 50 Hz
- M800-100A Fully-Processed, B–H & C/L: 50 Hz
- M1000-100A Fully-Processed, B–H & C/L: 50 Hz

Non-Oriented Silicon Steels, continued

JFE Steel (fomerly Kawasaki Steel and NKK Steel)
35JNE250 .35 mm (.014 inch, 29 gauge) Fully-Processed, B–H: DC–10,000 Hz, C/L: 50 & 60 Hz
50JNE300 .50 mm (.020 inch, 26 gauge) Fully-Processed, B–H: DC–10,000 Hz, C/L: 50 & 60 Hz
50JNE470 .50 mm (.020 inch, 26 gauge) Fully-Processed, B–H: DC–10,000 Hz, C/L: 50 & 60 Hz

Thin-Gauge Silicon Steels

Standard Chemistry

ArcelorMittal (formerly Arcelor FCS)
NO .2 mm (.008 inch) Fully-Processed, B–H and C/L: 50–700 Hz

Arnold Magnetic Technologies (formerly Arnold Technologies and Group Arnold)
Arnon 5 .005 inch (.125 mm) Fully-Processed, B–H: DC, C/L: 400–4000 Hz
Arnon 7 .007 inch (.175 mm) Fully-Processed, B–H: DC, C/L: 200–5000 Hz

Cogent Power (formerly Surahammars Bruk)
Sura-005 .005 inch (.125 mm) Fully-Processed, B–H: DC, C/L: 50–2500 Hz
Sura-007 .007 inch (.175 mm) Fully-Processed, B–H: DC, C/L: 50–2500 Hz
NO-20 .2 mm (.008 inch) Fully-Processed, B–H: DC, C/L: 50–2500 Hz

JFE Steel (fomerly Kawasaki Steel and NKK Steel)
20JNEH1200 .2 mm (.008 inch) Fully-Processed, B–H: DC–10,000 Hz, C/L: 50 & 60 Hz
20JNEH1500 .2 mm (.008 inch) Fully-Processed, B–H: DC–10,000 Hz, C/L: 50 & 60 Hz

6½% Silicon

JFE Steel (fomerly Kawasaki Steel and NKK Steel)
10JNEX900 .1 mm (.004 inch) Fully-Processed (formerly NKK Super E-Core),
B–H: DC–50,000 Hz, C/L: 50–50,000 Hz
10JNHF600 .1 mm (.004 inch) Fully-Processed (formerly NKK Super HF-Core),
B–H: DC–100,000 Hz, C/L: 50–100,000 Hz
20JNHF1300 .2 mm).008 inch) Fully-Processed (formerly NKK Super HF-Core),
B–H: DC–20,000 Hz, C/L: 50–20,000 Hz

Nickel-Iron Alloys

49% Nickel

Carpenter Technology
Alloy 49 .006 inch (.15 mm) Rotor Grade, C/L: 60-5000 Hz
Alloy 49 .007 inch (.175 mm) Rotor Grade, B–H: DC-400 Hz
Alloy 49 .014 inch (.36 mm, 29 gauge) Rotor Grade, B–H: DC–400 Hz, C/L: 60–5000 Hz
Alloy 49 .006 inch (.15 mm) Transformer Grade, B–H & C/L: 60 & 400 Hz
Alloy 49 .014 inch (.36 mm, 29 gauge) Transformer Grade, B–H & C/L: 60 & 400 Hz

Imphy Alloys
Supra 50 .35 mm (.014 inch, 29 gauge), B–H: DC (3 test temperatures), C/L: 50–100,000 Hz

Spang Specialty Metals
Alloy 48 .004 inch (.1 mm), C/L: 400–20,000 Hz
Alloy 48 .006 inch (.15 mm), B–H: DC-400 Hz
Alloy 48 .014 inch (.36 mm, 29 gauge), B–H: DC-400 Hz

Nickel-Iron Alloys, 49% nickel, continued

Vacuumschmelze
Permenorm 5000 H2 .20 mm (.008 inch), B–H & C/L: 50 Hz
Permenorm 5000 H2 .35 mm (.014 inch, 29 gauge), B–H: DC

80% Nickel
Carpenter Technology
Hymu 80 .004 inch (.1 mm), B–H: DC–1000 Hz, C/L: 60 & 400 Hz
Hymu 80 .006 inch (.15 mm), B–H: DC–1000 Hz, C/L: 60 & 400 Hz
HyMu 80 .014 inch (.36 mm, 29 gauge), B–H: DC–1000 Hz, C/L: 60 & 400 Hz

Imphy Alloys
Mumetal .35 mm (.014 inch, 29 gauge), B–H: DC

Vacuumschmelze
Mumetall .20 mm (.008 inch), B–H: DC, C/L: 50 Hz

Cobalt-Iron Alloys
Carpenter Technology
Hiperco 50 .006 inch (.15 mm), 2 annealing cycles, B–H: DC, C/L: 60–3000 Hz
Hiperco 50 .014 inch (.36 mm, 29 gauge), 2 annealing cycles, B–H: DC, C/L: 60–3000 Hz
Hiperco 50A .006 inch (.15 mm), C/L: 60–1200 Hz
Hiperco 50A .014 inch (.36 mm, 29 gauge), B–H: DC, C/L: 60–1200 Hz
Hiperco 50HS .006 inch (.15 mm), 2 annealing cycles, C/L: 60–4000 Hz
Hiperco 27 .016 inch (.41 mm, 29 gauge), 2 annealing cycles, C/L: 60–400 Hz

Imphy Alloys
AFK502R .35 mm (.014 inch, 29 gauge), B–H: DC, C/L, 50 & 400 Hz
AFK1 .35 mm (.014 inch, 29 gauge), 2 annealing cycles, B–H: DC
AFK18 .30 mm (.012 inch), B–H: DC
AFK18 .35 mm (.014 inch, 29 gauge), 2 annealing cycles, C/L: 50 & 400 Hz

Vacuumchmelze
Vacoflux 50 .20 mm (.008 inch), B–H: DC & 60 Hz, C/L, 50–5000 Hz
Vacodur 50 .35 mm (.014 inch, 29 gauge), B–H: DC & 60 Hz, C/L, 50–5000 Hz
Vacoflux 48 .20 mm (.008 inch), B–H: DC, C/L, 50–5000 Hz
Vacoflux 48 .35 mm (.014 inch, 29 gauge), B–H: DC, C/L, 50–5000 Hz
Vacoflux 17 .25 mm (.010 inch), B–H: DC & 400 Hz, C/L, 50–1000 Hz
Vacoflux 17 .35 mm (.014 inch, 29 gauge), B–H: DC–400 Hz, C/L, 50–1000 Hz
Vacodur 50 .35 mm (.014 inch, 29 gauge), 2 annealing cycles, B–H: DC, C/L: 50–3000 Hz
Vacodur S Plus .35 mm (.014 inch, 29 gauge), 3 annealing cycles, B–H: DC

Amorphous Alloys
Metglas, Inc.
2605SA1 .022 mm (.0009 inch), B–H: 60 Hz, C/L: 60–100,000 Hz

Powdered Alloys
Höganäs AB
Somaloy 500 (various compaction methods), B–H; DC, C/L: 50–1000 Hz
Somaloy 550 (various compaction methods), B–H; DC, C/L: 50–1000 Hz

Grain Oriented Silicon Steels

AK Steel (formerly Armco Steel)

- Oriented M-2 .007 inch (.175 mm), C/L: 60 hz
- Oriented M-3 .009 inch(.225 mm), C/L: 60 hz
- Oriented M-4 .011 inch (.275 mm), C/L: 60 hz
- Oriented M-6 .014 inch (.36 mm, 29 gauge), C/L: 60 hz
- Oriented Trancor-H-0 .009 inch (.225 mm), C/L: 60 hz
- Oriented Trancor-H-1 .011 inch (.275 mm), C/L: 60 hz