M-5

CRGO performance data

Query summary

Grade	M-5
Mill and thickness	JFE Steel · 0.35 mm
Published frequency	50 Hz / 60 Hz
Published flux density range	1.5-1.7 T
Distinct flux density levels	2
Properties	Specific core loss · Magnetic polarization

50 Hz performance

Table 01 · Rolling-direction stress-relief annealed

J (T)	Specific core loss Guaranteed maximum · W/kg	Specific core loss Typical · W/kg
1.5	1.01	0.97
1.7	1.45	1.36

60 Hz performance

Table 02 · Rolling-direction stress-relief annealed

J (T)	Specific core loss Guaranteed maximum · W/kg	Specific core loss Typical · W/kg
1.5	1.32	1.30
1.7	1.91	1.79

Other properties

Frequency not separately reported
Table 03 · Rolling-direction stress-relief annealed

Field strength (A/m)	Magnetic polarization Guaranteed minimum · T	Magnetic polarization Typical · T
800	1.80	1.84

A dash indicates a value that was not published.

Manufacturer sources and test conditions

Use table and row references to find the original test conditions.

JFE Steel

Electrical Steel Sheets

Revision Cat. No. F1E-001-08; footer code 2003R(1903) JTR Official document

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AISI: Grades and Specifications · See source conditions

Notes on test conditions JIS C 2550-1:2011 (practically the same as ASTM A343), rolling-direction specimens, stress-relief annealed; AISI section.

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AISI: Typical Magnetic Properties · See source conditions

Notes on test conditions JIS C 2550-1:2011 (practically the same as ASTM A343), rolling-direction specimens, stress-relief annealed; AISI section.

Independent compilation

Compiled by Chenfan Electric from published mill data.
Mill specifications and written order terms govern acceptance. Typical and reference values are for assessment.
Strip data are for engineering reference. Finished-core loss requires separate validation.
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