30SQGD105

CRGO performance data

Query summary

Grade	30SQGD105
Mill and thickness	Shougang · 0.30 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 · Stacking factor

50 Hz performance

Table 01 · Not reported in cited manufacturer tables · B or J not reported

Peak flux (T)	Specific core loss Guaranteed maximum · W/kg	Specific core loss Typical · W/kg	Specific core loss Published reference · W/kg
1.5	-	-	0.73
1.7	1.05	0.98	-

60 Hz performance

Table 02 · Not reported in cited manufacturer tables · B or J not reported

Peak flux (T)	Specific core loss Typical · W/kg	Specific core loss Published reference · W/kg
1.5	-	0.97
1.7	1.28	-

Other properties

Frequency not separately reported
Table 03 · Not reported in cited manufacturer tables

Field strength (A/m)	Magnetic polarization Guaranteed minimum · T	Magnetic polarization Typical · T
800	1.88	1.89

Table 04 · Not reported in cited manufacturer tables

Property	Stacking factor Guaranteed minimum · dimensionless	Stacking factor Typical · dimensionless
Stacking factor	0.960	0.965

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.

Shougang

Shougang Cold Rolled Grain-Oriented Electrical Steel Product Manual

Revision 2025 catalogue (official catalogue label; PDF dated 2025-07-23) Official document

PDF page 7 · Table 01
§2.4 Table 2 · Not reported in cited manufacturer tables
Notes on test conditions Producer reports P at the stated peak-density point and frequency; loss-table test fixture and explicit B/J basis are not stated.

PDF page 8 · Table 01
§2.5 Table 2 · Not reported in cited manufacturer tables
Notes on test conditions Producer reports P at the stated peak-density point and frequency; loss-table test fixture and explicit B/J basis are not stated. Listed in §2.5 typical-data table.

PDF page 8 · Table 01,02
§2.5 Table 2 · Not reported in cited manufacturer tables
Notes on test conditions Producer reports P at the stated peak-density point and frequency; loss-table test fixture and explicit B/J basis are not stated. Footnote a designates the 1.5 T entry as a reference value.

PDF page 8 · Table 02
§2.5 Table 2 · Not reported in cited manufacturer tables
Notes on test conditions Producer reports P at the stated peak-density point and frequency; loss-table test fixture and explicit B/J basis are not stated. §2.5 is a typical-data table. Footnote b says supply per P1.7/60 can be requested; confirm any guaranteed limit separately.

PDF page 7 · Table 03
§2.4 Table 2 · Not reported in cited manufacturer tables
Notes on test conditions J800 at peak H=800 A/m. The table has a single value labelled 50 Hz or 60 Hz; no distinct frequency-specific values are reported.

PDF page 8 · Table 03
§2.5 Table 2 · Not reported in cited manufacturer tables
Notes on test conditions J800 at peak H=800 A/m. The table has a single value labelled 50 Hz or 60 Hz; no distinct frequency-specific values are reported.

PDF page 7 · Table 04
§2.4 Table 2 · Not reported in cited manufacturer tables
Notes on test conditions Dimensionless ratio for the steel strip; fixture is not specified.

PDF page 8 · Table 04
§2.5 Table 2 · Not reported in cited manufacturer tables
Notes on test conditions Dimensionless ratio for the steel strip; fixture is not specified.

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.
Revision 2026-11-14.2