27PHD085

CRGO performance data

Query summary

Grade	27PHD085
Mill and thickness	POSCO · 0.27 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 induction

50 Hz performance

Table 01 · Single-sheet / as-sheared

B (T)	Specific core loss Guaranteed maximum · W/kg	Specific core loss Typical · W/kg
1.5	-	0.62
1.7	0.85	0.81

60 Hz performance

Table 02 · Single-sheet / as-sheared

B (T)	Specific core loss Guaranteed maximum · W/kg	Specific core loss Typical · W/kg
1.5	-	0.83
1.7	1.17	1.06

Other properties

Frequency not separately reported
Table 03 · Single-sheet / as-sheared

Field strength (A/m)	Magnetic induction Guaranteed minimum · T	Magnetic induction Typical · T
800	1.88	1.91

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.

POSCO

Electrical Steel: Grain-Oriented (English GO Catalog)

Revision 2022 catalog; no additional revision stated Official document

PDF page 8 · Table 01,02,03

PHD-Core: Specification, Magnetic properties and lamination factor · See source conditions

Notes on test conditions IEC 60404-3 (or JIS C 2556), single-sheet tester; rolling-direction specimens without stress-relief annealing.

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PHD-Core: Typical Electrical and Magnetic Properties · See source conditions

Notes on test conditions IEC 60404-3 (or JIS C 2556), single-sheet tester; rolling-direction specimens without stress-relief annealing.

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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