ETH 105-30

CRGO performance data

Query summary

Grade	ETH 105-30
Mill and thickness	Stalprodukt · 0.3 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 · Epstein (IEC 60404-2:1996/A1:2008) · B or J not reported

Peak flux (T)	Specific core loss Guaranteed maximum · W/kg	Specific core loss Typical · W/kg
1.5	0.76	0.75
1.7	1.05	1.04

60 Hz performance

Table 02 · Epstein (IEC 60404-2:1996/A1:2008) · B or J not reported

Peak flux (T)	Specific core loss Guaranteed maximum · W/lb	Specific core loss Typical · W/kg
1.5	0.45	0.95
1.7	0.65	1.38

Other properties

Frequency not separately reported
Table 03 · Epstein (IEC 60404-2:1996/A1:2008)

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.

Stalprodukt

Blachy elektrotechniczne / Grain Oriented Electrical Steel

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PDF page 10 · Table 01

HGO magnetic properties (W/kg) · Epstein (IEC 60404-2:1996/A1:2008)

Notes on test conditions Catalogue states 50 Hz Epstein tests use rolling-direction samples after stress relief annealing and 225°C aging for 24 h. Independent 60 Hz columns are printed; per-coil 60 Hz measurements are on request (catalogue p. 4). Flux basis in the loss table is unlabelled. 1.5 T / 50 Hz maximum requires agreement (p. 4).

Table 1 · Specific core loss · Guaranteed maximum · W/kg · 1.5

PDF page 10 · Table 01,02,03

HGO magnetic properties (W/kg) · Epstein (IEC 60404-2:1996/A1:2008)

Notes on test conditions Catalogue states 50 Hz Epstein tests use rolling-direction samples after stress relief annealing and 225°C aging for 24 h. Independent 60 Hz columns are printed; per-coil 60 Hz measurements are on request (catalogue p. 4). Flux basis in the loss table is unlabelled.

Table 1 · Specific core loss · Guaranteed maximum · W/kg · 1.7

PDF page 10 · Table 02

HGO magnetic properties (W/lb) · Epstein (IEC 60404-2:1996/A1:2008)

Notes on test conditions Catalogue states 50 Hz Epstein tests use rolling-direction samples after stress relief annealing and 225°C aging for 24 h. Independent 60 Hz columns are printed; per-coil 60 Hz measurements are on request (catalogue p. 4). Flux basis in the loss table is unlabelled.

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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