H-1 CARLITE DR

CRGO performance data

Query summary

Grade	H-1 CARLITE DR
Mill and thickness	Cleveland-Cliffs · 0.27 mm
Published frequency	50 Hz / 60 Hz
Published flux density range	0.1-1.9 T
Distinct flux density levels	19
Properties	Specific core loss · Specific exciting apparent power · Magnetic induction

50 Hz performance

Table 01 · ASTM A804 as-sheared SST

B (T)	Specific core loss Guaranteed maximum · W/kg	Specific core loss Typical A · W/kg	Specific core loss Typical B · W/kg	Specific exciting apparent power Typical · VA/kg
0.1	-	0.00328	-	0.00542
0.2	-	0.01246	-	0.01918
0.3	-	0.0274	-	0.0405
0.4	-	0.0479	-	0.0681
0.5	-	0.0738	-	0.1015
0.6	-	0.1050	-	0.1402
0.7	-	0.1415	-	0.1845
0.8	-	0.1837	-	0.235
0.9	-	0.231	-	0.292
1	-	0.284	-	0.359
1.1	-	0.344	-	0.439
1.2	-	0.410	-	0.534
1.3	-	0.483	-	0.650
1.4	-	0.562	-	0.789
1.5	0.67	0.649	0.65	0.954
1.6	-	0.748	-	1.162
1.7	0.90	0.872	0.87	1.526
1.8	-	1.067	-	2.64
1.9	-	1.440	-	9.17

60 Hz performance

Table 02 · ASTM A804 as-sheared SST

B (T)	Specific core loss Guaranteed maximum · W/kg	Specific core loss Typical A · W/kg	Specific core loss Typical B · W/kg	Specific exciting apparent power Typical · VA/kg
0.1	-	0.00441	-	0.00683
0.2	-	0.01680	-	0.0244
0.3	-	0.0370	-	0.0518
0.4	-	0.0647	-	0.0874
0.5	-	0.0996	-	0.1306
0.6	-	0.1413	-	0.1808
0.7	-	0.1900	-	0.238
0.8	-	0.246	-	0.303
0.9	-	0.309	-	0.377
1	-	0.380	-	0.463
1.1	-	0.459	-	0.565
1.2	-	0.547	-	0.685
1.3	-	0.644	-	0.829
1.4	-	0.749	-	0.999
1.5	0.90	0.865	0.86	1.200
1.6	-	0.994	-	1.453
1.7	1.20	1.154	1.16	1.887
1.8	-	1.405	-	3.21
1.9	-	1.876	-	11.15

Other properties

Frequency not separately reported
Table 03 · Not specified for induction

Field strength (A/m)	Magnetic induction Guaranteed minimum · T	Magnetic induction Typical · T
800	1.880	1.918

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.

Cleveland-Cliffs

TRAN-COR® H Grain-Oriented Electrical Steel

Revision October 2024 (printed, back cover) Official document

PDF page 3 · Table 01,02
Table 1 – Guaranteed core loss · ASTM A804 as-sheared SST
Notes on test conditions As-sheared single-sheet specimens from fully processed coil, cut parallel to the rolling direction; ASTM A804.

PDF page 10 · Table 01A,02A
Table 8 – Typical core loss · ASTM A804 as-sheared SST
Notes on test conditions ASTM A804 as-sheared SST specimens as indicated by table heading.

PDF page 3 · Table 01B,02B
Table 2 – Typical electrical and magnetic properties · ASTM A804 as-sheared SST
Notes on test conditions As-sheared single-sheet specimens from fully processed coil, cut parallel to the rolling direction; ASTM A804.

PDF page 11 · Table 01,02
Table 9 – Typical RMS exciting power · ASTM A804 as-sheared SST
Notes on test conditions ASTM A804 as-sheared SST specimens as indicated by table heading.

PDF page 3 · Table 03
Table 1 – Guaranteed core loss · Not specified for induction
Notes on test conditions As-sheared single-sheet specimens from fully processed coil, cut parallel to the rolling direction; ASTM A804. The brochure does not identify a fixture for the tabulated 800 A/m induction.

PDF page 3 · Table 03
Table 2 – Typical electrical and magnetic properties · Not specified for induction
Notes on test conditions As-sheared single-sheet specimens from fully processed coil, cut parallel to the rolling direction; ASTM A804. The brochure does not identify a fixture for the tabulated 800 A/m induction.

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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