thyssenkrupp Electrical Steel

Mill grade reference

Query summary

Grade data sheets	33
Published values	99
Published frequency	50 Hz / 60 Hz
Published flux density range	1.7 T
Distinct flux density levels	1

50 Hz performance

Number	Mill / grade	Thickness mm	Property	Test point	Value	Value type
1	**23HP100d** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.00** W/kg	Guaranteed maximum
2	**23HP80d** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.80** W/kg	Guaranteed maximum
3	**23HP85d** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.85** W/kg	Guaranteed maximum
4	**23HP90d** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.90** W/kg	Guaranteed maximum
5	**23HP95d** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.95** W/kg	Guaranteed maximum
6	**27HP100** thyssenkrupp Electrical Steel	0.27	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.00** W/kg	Guaranteed maximum
7	**27HP110** thyssenkrupp Electrical Steel	0.27	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.10** W/kg	Guaranteed maximum
8	**27HP90d** thyssenkrupp Electrical Steel	0.27	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.90** W/kg	Guaranteed maximum
9	**27HP95d** thyssenkrupp Electrical Steel	0.27	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.95** W/kg	Guaranteed maximum
10	**30HP105** thyssenkrupp Electrical Steel	0.3	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.05** W/kg	Guaranteed maximum
11	**30HP110** thyssenkrupp Electrical Steel	0.3	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.10** W/kg	Guaranteed maximum
12	**30HP120** thyssenkrupp Electrical Steel	0.3	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.20** W/kg	Guaranteed maximum

Number	Mill / grade	Thickness mm	Property	Test point	Value	Value type
13	**35HP115** thyssenkrupp Electrical Steel	0.35	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.15** W/kg	Guaranteed maximum
14	**35HP125** thyssenkrupp Electrical Steel	0.35	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.25** W/kg	Guaranteed maximum
15	**35HP135** thyssenkrupp Electrical Steel	0.35	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.35** W/kg	Guaranteed maximum
16	**H 070-20** thyssenkrupp Electrical Steel	0.2	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.70** W/kg	Guaranteed maximum
17	**H 070-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.70** W/kg	Guaranteed maximum
18	**H 075-20** thyssenkrupp Electrical Steel	0.2	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.75** W/kg	Guaranteed maximum
19	**H 075-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.75** W/kg	Guaranteed maximum
20	**H 078-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.78** W/kg	Guaranteed maximum
21	**H 080-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.80** W/kg	Guaranteed maximum
22	**H 085-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.85** W/kg	Guaranteed maximum
23	**H 085-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.85** W/kg	Guaranteed maximum
24	**H 090-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.90** W/kg	Guaranteed maximum
25	**H 090-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.90** W/kg	Guaranteed maximum
26	**H 095-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	50 Hz / 1.7 T B or J not reported	**0.95** W/kg	Guaranteed maximum
27	**H 100-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.00** W/kg	Guaranteed maximum
28	**H 100-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.00** W/kg	Guaranteed maximum
29	**H 100-30** thyssenkrupp Electrical Steel	0.3	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.00** W/kg	Guaranteed maximum
30	**H 105-30** thyssenkrupp Electrical Steel	0.3	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.05** W/kg	Guaranteed maximum
31	**H 110-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.10** W/kg	Guaranteed maximum

Number	Mill / grade	Thickness mm	Property	Test point	Value	Value type
32	**H 110-30** thyssenkrupp Electrical Steel	0.3	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.10** W/kg	Guaranteed maximum
33	**H 125-35** thyssenkrupp Electrical Steel	0.35	Specific core loss	50 Hz / 1.7 T B or J not reported	**1.25** W/kg	Guaranteed maximum

60 Hz performance

Number	Mill / grade	Thickness mm	Property	Test point	Value	Value type
34	**23HP100d** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.32** W/kg	Guaranteed maximum
35	**23HP80d** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.04** W/kg	Guaranteed maximum
36	**23HP85d** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.12** W/kg	Guaranteed maximum
37	**23HP90d** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.19** W/kg	Guaranteed maximum
38	**23HP95d** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.25** W/kg	Guaranteed maximum
39	**27HP100** thyssenkrupp Electrical Steel	0.27	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.32** W/kg	Guaranteed maximum
40	**27HP110** thyssenkrupp Electrical Steel	0.27	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.45** W/kg	Guaranteed maximum
41	**27HP90d** thyssenkrupp Electrical Steel	0.27	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.19** W/kg	Guaranteed maximum
42	**27HP95d** thyssenkrupp Electrical Steel	0.27	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.25** W/kg	Guaranteed maximum
43	**30HP105** thyssenkrupp Electrical Steel	0.3	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.38** W/kg	Guaranteed maximum
44	**30HP110** thyssenkrupp Electrical Steel	0.3	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.46** W/kg	Guaranteed maximum
45	**30HP120** thyssenkrupp Electrical Steel	0.3	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.58** W/kg	Guaranteed maximum
46	**35HP115** thyssenkrupp Electrical Steel	0.35	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.51** W/kg	Guaranteed maximum
47	**35HP125** thyssenkrupp Electrical Steel	0.35	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.64** W/kg	Guaranteed maximum
48	**35HP135** thyssenkrupp Electrical Steel	0.35	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.77** W/kg	Guaranteed maximum
49	**H 070-20** thyssenkrupp Electrical Steel	0.2	Specific core loss	60 Hz / 1.7 T B or J not reported	**0.92** W/kg	Guaranteed maximum

Number	Mill / grade	Thickness mm	Property	Test point	Value	Value type
50	**H 070-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**0.92** W/kg	Guaranteed maximum
51	**H 075-20** thyssenkrupp Electrical Steel	0.2	Specific core loss	60 Hz / 1.7 T B or J not reported	**0.99** W/kg	Guaranteed maximum
52	**H 075-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**0.99** W/kg	Guaranteed maximum
53	**H 078-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.03** W/kg	Guaranteed maximum
54	**H 080-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.05** W/kg	Guaranteed maximum
55	**H 085-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.12** W/kg	Guaranteed maximum
56	**H 085-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.12** W/kg	Guaranteed maximum
57	**H 090-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.18** W/kg	Guaranteed maximum
58	**H 090-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.18** W/kg	Guaranteed maximum
59	**H 095-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.25** W/kg	Guaranteed maximum
60	**H 100-23** thyssenkrupp Electrical Steel	0.23	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.32** W/kg	Guaranteed maximum
61	**H 100-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.32** W/kg	Guaranteed maximum
62	**H 100-30** thyssenkrupp Electrical Steel	0.3	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.32** W/kg	Guaranteed maximum
63	**H 105-30** thyssenkrupp Electrical Steel	0.3	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.38** W/kg	Guaranteed maximum
64	**H 110-27** thyssenkrupp Electrical Steel	0.27	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.45** W/kg	Guaranteed maximum
65	**H 110-30** thyssenkrupp Electrical Steel	0.3	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.45** W/kg	Guaranteed maximum
66	**H 125-35** thyssenkrupp Electrical Steel	0.35	Specific core loss	60 Hz / 1.7 T B or J not reported	**1.64** W/kg	Guaranteed maximum

Other properties

Frequency not separately reported

Number	Mill / grade	Thickness mm	Property	Test point	Value	Value type
67	**23HP100d** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.85** T	Guaranteed minimum
68	**23HP80d** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.85** T	Guaranteed minimum
69	**23HP85d** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.85** T	Guaranteed minimum
70	**23HP90d** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.85** T	Guaranteed minimum
71	**23HP95d** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.85** T	Guaranteed minimum
72	**27HP100** thyssenkrupp Electrical Steel	0.27	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
73	**27HP110** thyssenkrupp Electrical Steel	0.27	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
74	**27HP90d** thyssenkrupp Electrical Steel	0.27	Magnetic polarization	H = 800 A/m	**1.85** T	Guaranteed minimum
75	**27HP95d** thyssenkrupp Electrical Steel	0.27	Magnetic polarization	H = 800 A/m	**1.85** T	Guaranteed minimum
76	**30HP105** thyssenkrupp Electrical Steel	0.3	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
77	**30HP110** thyssenkrupp Electrical Steel	0.3	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
78	**30HP120** thyssenkrupp Electrical Steel	0.3	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
79	**35HP115** thyssenkrupp Electrical Steel	0.35	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
80	**35HP125** thyssenkrupp Electrical Steel	0.35	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
81	**35HP135** thyssenkrupp Electrical Steel	0.35	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
82	**H 070-20** thyssenkrupp Electrical Steel	0.2	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
83	**H 070-23** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
84	**H 075-20** thyssenkrupp Electrical Steel	0.2	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
85	**H 075-23** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum

Number	Mill / grade	Thickness mm	Property	Test point	Value	Value type
86	**H 078-23** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
87	**H 080-23** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
88	**H 085-23** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
89	**H 085-27** thyssenkrupp Electrical Steel	0.27	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
90	**H 090-23** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
91	**H 090-27** thyssenkrupp Electrical Steel	0.27	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
92	**H 095-27** thyssenkrupp Electrical Steel	0.27	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
93	**H 100-23** thyssenkrupp Electrical Steel	0.23	Magnetic polarization	H = 800 A/m	**1.85** T	Guaranteed minimum
94	**H 100-27** thyssenkrupp Electrical Steel	0.27	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
95	**H 100-30** thyssenkrupp Electrical Steel	0.3	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
96	**H 105-30** thyssenkrupp Electrical Steel	0.3	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
97	**H 110-27** thyssenkrupp Electrical Steel	0.27	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
98	**H 110-30** thyssenkrupp Electrical Steel	0.3	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum
99	**H 125-35** thyssenkrupp Electrical Steel	0.35	Magnetic polarization	H = 800 A/m	**1.88** T	Guaranteed minimum

Manufacturer sources and test conditions

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

thyssenkrupp Electrical Steel

powercore® grain oriented electrical steel – Product range

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PDF page 23 · Data rows 1-15, 34-48, 67-81

Source pages and test methods powercore magnetic properties (BIS 3024) · Epstein or SST (IS 649)

Notes on test conditions Mill publishes both frequencies. Measured via Epstein frame or SST under IS 649; path per row not specified. A trailing d indicates laser-scribed; other grades may be laser-scribed if not agreed otherwise. Guaranteed properties require written agreement.

PDF page 22 · Data rows 16-33, 49-66, 82-99

Source pages and test methods powercore magnetic properties (IEC 60404-8-7) · SST (IEC 60404-3) with published conversion

Notes on test conditions Mill publishes SST values after converting losses at 1.7 T by 0.925 (IEC 60404-8-7) and J800 by 1.01. Grades are laser domain refined unless otherwise agreed; guaranteed properties require written agreement.

Independent compilation

Compiled by Chenfan Electric from published mill data. No manufacturer endorsement.
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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