

Typical data for SURA® M330-35A

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz	W/kg at 100 Hz	W/kg at 200 Hz	W/kg at 400 Hz	W/kg at 1000 Hz	W/kg at 2500 Hz
0,1	0.02	0.07	33.4	0.05	0.12	0.33	1.43	5.95
0,2	0.08	0.18	43.6	0.20	0.48	1.27	5.40	21.7
0,3	0.17	0.32	50.8	0.41	1.02	2.69	11.0	45.1
0,4	0.28	0.48	57.2	0.67	1.68	4.49	18.3	76.2
0,5	0.40	0.66	63.6	0.97	2.47	6.66	27.2	116
0,6	0.53	0.87	70.4	1.30	3.37	9.19	38.1	167
0,7	0.68	1.11	78.1	1.68	4.39	12.11	51.1	230
0,8	0.84	1.39	87.2	2.10	5.54	15.44	66.4	308
0,9	1.02	1.72	98.7	2.56	6.82	19.22	84.5	403
1,0	1.22	2.12	114	3.07	8.25	23.54	106	517
1,1	1.44	2.63	136	3.64	9.86	28.48	130	654
1,2	1.69	3.35	172	4.29	11.6	34.12	159	803
1,3	2.00	4.56	242	5.07	13.7	40.62	193	
1,4	2.40	7.40	428	6.06	16.3	48.24	233	
1,5	2.94	17.0	1027	7.40	19.6	57.86	279	
1,6	3.67	46.2	2576	8.86	23.2	70.24	335	
1,7	4.32	110	5409					
1,8	4.73	220	9677					

Loss at 1.5 T , 50 Hz, W/kg 2,94

Loss at 1.0 T , 50 Hz, W/kg 1,22

Anisotropy of loss, % 10

Magnetic polarization at 50 Hz

H = 2500 A/m, T 1,56

H = 5000 A/m, T 1,65

H = 10000 A/m, T 1,77

Coercivity (DC), A/m 40

Relative permeability at 1.5 T 880

Resistivity, $\mu\Omega\text{cm}$ 42

Yield strength, N/mm^2 315

Tensile strength, N/mm^2 455

Young's modulus, RD, N/mm^2 200 000

Young's modulus, TD, N/mm^2 210 000

Hardness HV5 (VPN) 155



RD represents the rolling direction

TD represents the transverse direction

Values for yield strength (0.2 % proof strength)

and tensile strength are given for the rolling direction

Values for the transverse direction are approximately 5% higher