

## Typical data for SURA® M350-50A

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	0,08	36,4	0.06	0.17	0,48	2.02	8.34
0,2	0,09	0,20	48,1	0.24	0.62	1,75	7.15	29.0
0,3	0,18	0,36	56,1	0.50	1.30	3,62	14.7	60.1
0,4	0,30	0,54	63,2	0.81	2.15	6,02	24.6	104
0,5	0,44	0,75	70,2	1.18	3.17	8,96	37.2	162
0,6	0,59	0,99	77,5	1.60	4.36	12,5	53.1	241
0,7	0,76	1,27	85,6	2.08	5.73	16,6	72.7	343
0,8	0,95	1,58	94,8	2.62	7.31	21,5	96.9	474
0,9	1,16	1,94	106	3.21	9.09	27,2	126	638
1,0	1,39	2,39	122	3.88	11.1	33,8	162	840
1,1	1,65	2,96	146	4.61	13.4	41,5	204	1079
1,2	1,95	3,76	185	5.43	16.0	50,4	254	1360
1,3	2,29	5,11	264	6.37	18.9	60,4	312	1679
1,4	2,75	8,40	481	7.53	22.3	72,1	378	2036
1,5	3,29	19,8	1200	8.99	26.6	85,7	456	2316
1,6	4,41	54,1	3025					
1,7	4,77	124	6186					
1,8	5,00	238	10720					

Loss at 1.5 T , 50 Hz, W/kg	3,29
Loss at 1.0 T , 50 Hz, W/kg	1,39
Anisotropy of loss, %	10
Magnetic polarization at 50 Hz	
H = 2500 A/m, T	1,58
H = 5000 A/m, T	1,67
H = 10000 A/m, T	1,78
Coercivity (DC), A/m	45
Relative permeability at 1.5 T	1050
Resistivity, $\mu\Omega\text{cm}$	42
Yield strength, N/mm <sup>2</sup>	320
Tensile strength, N/mm <sup>2</sup>	460
Young's modulus, RD, N/mm <sup>2</sup>	200 000
Young's modulus, TD, N/mm <sup>2</sup>	210 000
Hardness HV5 (VPN)	160



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