

## Typical data for SURA® M800-100A

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,05	0,10	49,3
0,2	0,17	0,30	69,2
0,3	0,37	0,55	85,1
0,4	0,62	0,87	101
0,5	0,92	1,26	117
0,6	1,27	1,73	135
0,7	1,70	2,30	154
0,8	2,18	2,97	174
0,9	2,74	3,77	196
1,0	3,33	4,75	221
1,1	4,00	5,98	261
1,2	4,73	7,59	332
1,3	5,47	9,97	450
1,4	6,28	14,1	675
1,5	7,20	23,1	1190
1,6	8,22	48,0	2550
1,7	9,12	107	5360
1,8	10,06	214	9770

Loss at 1.5 T , 50 Hz, W/kg 7,20

Loss at 1.0 T , 50 Hz, W/kg 3,33

Anisotropy of loss, % 0

Magnetic polarization at 50 Hz

H = 2500 A/m, T 1,60

H = 5000 A/m, T 1,69

H = 10000 A/m, T 1,80

Coercivity (DC), A/m 70

Relative permeability at 1.5 T 1000

Resistivity,  $\mu\Omega\text{cm}$  39

Yield strength,  $\text{N/mm}^2$  300

Tensile strength,  $\text{N/mm}^2$  425

Young's modulus, RD,  $\text{N/mm}^2$  185 000

Young's modulus, TD,  $\text{N/mm}^2$  200 000

Hardness HV5 (VFN) 145



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