

## Typical data for SURA® M700-50A

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,05	0,14	67,8
0,2	0,16	0,36	88,3
0,3	0,37	0,63	99,2
0,4	0,59	0,92	108
0,5	0,84	1,23	116
0,6	1,12	1,58	124
0,7	1,43	1,96	132
0,8	1,77	2,38	142
0,9	2,15	2,84	152
1,0	2,57	3,36	164
1,1	3,03	3,96	180
1,2	3,55	4,71	206
1,3	4,13	5,76	254
1,4	4,83	7,57	363
1,5	5,68	12,4	690
1,6	6,54	30,3	1760
1,7	7,29	79,7	4230
1,8	7,81	172	8130

Loss at 1.5 T , 50 Hz, W/kg 5,68

Loss at 1.0 T , 50 Hz, W/kg 2,57

Anisotropy of loss, % 5

Magnetic polarization at 50 Hz

H = 2500 A/m, T 1,64

H = 5000 A/m, T 1,72

H = 10000 A/m, T 1,84

Coercivity (DC), A/m 100

Relative permeability at 1.5 T 1730

Resistivity,  $\mu\Omega\text{cm}$  25

Yield strength,  $\text{N/mm}^2$  285

Tensile strength,  $\text{N/mm}^2$  405

Young's modulus, RD,  $\text{N/mm}^2$  210 000

Young's modulus, TD,  $\text{N/mm}^2$  220 000

Hardness HV5 (VHN) 125



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