

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, N/mm ²	285
Tensile strength, N/mm ²	405
Young's modulus, RD, N/mm ²	210 000
Young's modulus, TD, N/mm ²	220 000
Hardness HV5 (VPN)	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

