

Typical data for SURA® M800-50A

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,05	0,17	84,5
0,2	0,18	0,44	107
0,3	0,43	0,76	121
0,4	0,70	1,12	133
0,5	1,01	1,52	145
0,6	1,35	1,97	156
0,7	1,72	2,46	168
0,8	2,13	3,00	180
0,9	2,56	3,60	194
1,0	3,05	4,27	209
1,1	3,59	5,04	228
1,2	4,20	5,96	254
1,3	4,91	6,95	304
1,4	5,70	8,49	402
1,5	6,60	11,9	660
1,6	7,54	25,2	1480
1,7	8,30	67,4	3710
1,8	8,83	151	7300

Loss at 1.5 T , 50 Hz, W/kg 6,60

Loss at 1.0 T , 50 Hz, W/kg 3,05

Anisotropy of loss, % 5

Magnetic polarization at 50 Hz

H = 2500 A/m, T 1,65

H = 5000 A/m, T 1,74

H = 10000 A/m, T 1,85

Coercivity (DC), A/m 100

Relative permeability at 1.5 T 1810

Resistivity, $\mu\Omega\text{cm}$ 23

Yield strength, N/mm^2 300

Tensile strength, N/mm^2 415

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

Young's modulus, TD, N/mm^2 220 000

Hardness HV5 (VPN) 130



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