

Typical data for SURA® M400-65A

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,03	0,06	29,5
0,2	0,10	0,17	40,1
0,3	0,20	0,32	48,4
0,4	0,33	0,49	56,2
0,5	0,48	0,70	64,2
0,6	0,65	0,95	72,6
0,7	0,84	1,25	81,9
0,8	1,06	1,60	93,0
0,9	1,30	2,02	108
1,0	1,57	2,53	127
1,1	1,87	3,19	155
1,2	2,20	4,10	197
1,3	2,58	5,58	278
1,4	3,07	8,89	484
1,5	3,63	19,5	1140
1,6	4,21	51,1	2820
1,7	4,70	117	5830
1,8	5,13	228	10300

Loss at 1.5 T , 50 Hz, W/kg 3,63

Loss at 1.0 T , 50 Hz, W/kg 1,57

Anisotropy of loss, % 7

Magnetic polarization at 50 Hz

H = 2500 A/m, T 1,58

H = 5000 A/m, T 1,68

H = 10000 A/m, T 1,79

Coercivity (DC), A/m 45

Relative permeability at 1.5 T 1050

Resistivity, $\mu\Omega\text{cm}$ 44

Yield strength, N/mm² 310

Tensile strength, N/mm² 450

Young's modulus, RD, N/mm² 185 000

Young's modulus, TD, N/mm² 205 000

Hardness HV5 (VPN) 165



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