

Typical data for SURA® M700-65A

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,05	0,12	57,4
0,2	0,17	0,32	75,8
0,3	0,35	0,56	87,6
0,4	0,58	0,84	98,0
0,5	0,84	1,16	108
0,6	1,12	1,51	118
0,7	1,44	1,91	129
0,8	1,78	2,36	140
0,9	2,18	2,87	153
1,0	2,62	3,46	167
1,1	3,11	4,15	185
1,2	3,67	5,02	211
1,3	4,32	6,22	265
1,4	5,06	8,18	379
1,5	5,88	13,0	688
1,6	6,77	28,8	1630
1,7	7,59	73,8	3920
1,8	8,25	162	7760

Loss at 1.5 T , 50 Hz, W/kg	5,88
Loss at 1.0 T , 50 Hz, W/kg	2,62
Anisotropy of loss, %	3
Magnetic polarization at 50 Hz	
H = 2500 A/m, T	1,64
H = 5000 A/m, T	1,73
H = 10000 A/m, T	1,84
Coercivity (DC), A/m	85
Relative permeability at 1.5 T	1740
Resistivity, $\mu\Omega\text{cm}$	30
Yield strength, N/mm ²	290
Tensile strength, N/mm ²	395
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

