

## 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,  $\text{N/mm}^2$  290

Tensile strength,  $\text{N/mm}^2$  395

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

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