

Typical data for SURA® M600-65HP

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,04	0,13	63,6
0,2	0,15	0,35	82,6
0,3	0,30	0,60	93,9
0,4	0,49	0,89	103
0,5	0,71	1,22	113
0,6	0,95	1,58	122
0,7	1,22	1,98	131
0,8	1,52	2,42	142
0,9	1,86	2,92	153
1,0	2,24	3,49	167
1,1	2,66	4,14	182
1,2	3,14	4,93	202
1,3	3,67	5,99	244
1,4	4,29	7,65	337
1,5	5,00	11,5	587
1,6	5,79	24,2	1360
1,7	6,52	62,6	3370
1,8	7,06	144	7010

Loss at 1.5 T , 50 Hz, W/kg 5,00

Loss at 1.0 T , 50 Hz, W/kg 2,24

Anisotropy of loss, % 4

Magnetic polarization at 50 Hz

H = 2500 A/m, T 1,66

H = 5000 A/m, T 1,75

H = 10000 A/m, T 1,85

Coercivity (DC), A/m 75

Relative permeability at 1.5 T 2040

Resistivity, $\mu\Omega\text{cm}$ 30

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 (VHN) 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