

Typical data for SURA® M530-65A

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,02	0,08	39,2
0,2	0,11	0,23	53,2
0,3	0,23	0,41	62,9
0,4	0,38	0,62	71,5
0,5	0,56	0,86	79,8
0,6	0,76	1,14	88,5
0,7	0,98	1,46	97,8
0,8	1,24	1,82	108
0,9	1,53	2,25	120
1,0	1,85	2,76	134
1,1	2,12	3,41	156
1,2	2,62	4,28	195
1,3	3,07	5,65	271
1,4	3,63	8,66	466
1,5	4,26	18,46	1085
1,6	4,97	49,01	2750
1,7	5,59	115	5797
1,8	6,10	226	10270

Loss at 1.5 T , 50 Hz, W/kg	4.26
Loss at 1.0 T , 50 Hz, W/kg	1,85
Anisotropy of loss, %	6
Magnetic polarization at 50 Hz	
H = 2500 A/m, T	1.59
H = 5000 A/m, T	1,68
H = 10000 A/m, T	1,79
Coercivity (DC), A/m	60
Relative permeability at 1.5 T	1110
Resistivity, $\mu\Omega\text{cm}$	38
Yield strength, N/mm ²	285
Tensile strength, N/mm ²	430
Young's modulus, RD, N/mm ²	190000
Young's modulus, TD, N/mm ²	210000
Hardness HV5 (VHN)	145



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