Typical data for SURA® M530-50HP

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,03	0,12	57,7
0,2	0,14	0,31	74,9
0,3	0,28	0,54	85,2
0,4	0,46	0,80	93,7
0,5	0,67	1,09	102
0,6	0,90	1,40	109
0,7	1,15	1,75	118
0,8	1,42	2,13	127
0,9	1,72	2,56	137
1,0	2,05	3,04	148
1,1	2,42	3,61	164
1,2	2,82	4,31	189
1,3	3,28	5,27	232
1,4	3,83	6,87	326
1,5	4,45	10,9	594
1,6	5,16	25,3	1460
1,7	5,83	67,4	3620
1,8	6,33	152	7320

Loss at 1.5 T , 50 Hz, W/kg	4,45
Loss at 1.0 T , 50 Hz, W/kg	2,05
Anisotropy of loss, %	6
Magnetic polarization at 50 Hz	
H = 2500 A/m, T	1,66
H = 5000 A/m, T	1,74
H = 10000 A/m, T	1,84
Coercivity (DC), A/m	75
Relative permeability at 1.5 T	2010
Resistivity, μΩcm	30
Yield strength, N/mm²	285
Tensile strength, N/mm²	405
Young's modulus, RD, N/mm²	210 000
Young's modulus, TD, N/mm²	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

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