

Typical data for SURA® M470-65A

T	W/kg at 50 Hz	VA/kg at 50 Hz	A/m at 50 Hz
0,1	0,02	0,07	35,0
0,2	0,10	0,20	46,4
0,3	0,21	0,35	54,2
0,4	0,35	0,53	61,1
0,5	0,52	0,74	68,0
0,6	0,70	0,98	75,2
0,7	0,92	1,25	82,9
0,8	1,16	1,56	91,2
0,9	1,42	1,92	100
1,0	1,73	2,36	112
1,1	2,07	2,91	129
1,2	2,46	3,65	162
1,3	2,89	4,83	231
1,4	3,44	7,64	420
1,5	4,06	17,6	1056
1,6	4,69	49,3	2782
1,7	5,21	117	5885
1,8	5,64	229	10390

Loss at 1.5 T , 50 Hz, W/kg	4,06
Loss at 1.0 T , 50 Hz, W/kg	1,73
Anisotropy of loss, %	6
Magnetic polarization at 50 Hz	
H = 2500 A/m, T	1,61
H = 5000 A/m, T	1,70
H = 10000 A/m, T	1,81
Coercivity (DC), A/m	55
Relative permeability at 1.5 T	1320
Resistivity, $\mu\Omega\text{cm}$	40
Yield strength, N/mm^2	280
Tensile strength, N/mm^2	420
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