

Typical data for SURA® M700-100A

| T | W/kg at 50 Hz | VA/kg at 50 Hz | A/m at 50 Hz |
|-----|------------------|-------------------|-----------------|
| 0,1 | 0,04 | 0,06 | 29,3 |
| 0,2 | 0,14 | 0,19 | 44,8 |
| 0,3 | 0,29 | 0,38 | 58,4 |
| 0,4 | 0,51 | 0,62 | 72,2 |
| 0,5 | 0,77 | 0,93 | 87,0 |
| 0,6 | 1,05 | 1,31 | 103 |
| 0,7 | 1,42 | 1,79 | 121 |
| 0,8 | 1,85 | 2,37 | 140 |
| 0,9 | 2,32 | 3,07 | 161 |
| 1,0 | 2,83 | 3,94 | 185 |
| 1,1 | 3,37 | 5,06 | 225 |
| 1,2 | 3,98 | 6,59 | 294 |
| 1,3 | 4,66 | 8,91 | 412 |
| 1,4 | 5,39 | 13,2 | 649 |
| 1,5 | 6,24 | 23,3 | 1220 |
| 1,6 | 7,13 | 49,9 | 2630 |
| 1,7 | 8,02 | 109 | 5370 |
| 1,8 | 8,83 | 214 | 9710 |

| | |
|-----------------------------|------|
| Loss at 1.5 T , 50 Hz, W/kg | 6,24 |
| Loss at 1.0 T , 50 Hz, W/kg | 2,83 |
| Anisotropy of loss, % | 1 |

Magnetic polarization at 50 Hz

| | |
|------------------|------|
| H = 2500 A/m, T | 1,59 |
| H = 5000 A/m, T | 1,69 |
| H = 10000 A/m, T | 1,80 |

| | |
|-----------------------------------|-----|
| Coercivity (DC), A/m | 50 |
| Relative permeability at 1.5 T | 980 |
| Resistivity, $\mu\Omega\text{cm}$ | 44 |

| | |
|--|---------|
| Yield strength, N/mm ² | 305 |
| Tensile strength, N/mm ² | 440 |
| Young's modulus, RD, N/mm ² | 185 000 |
| Young's modulus, TD, N/mm ² | 200 000 |
| Hardness HV5 (VPN) | 160 |

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

