



**MATERIAL DATA**

| Magnetic values                            |              | 20°C              |        |
|--|--------------|-------------------|--------|
| Maximum Energy Product<br>$BH_{max}$       | Typ          | KJ/m <sup>3</sup> | 390    |
|  | Min          | KJ/m <sup>3</sup> | 374    |
| Remanence<br>$B_r$                         | Typ          | mT                | 1430   |
|  | Min          |                   | 1400   |
| Reversible temp<br>coefficient of $B_r$    | Typ          | -%/°C             | 0.11   |
|  |              |                   |        |
| Reversible temp<br>coefficient of $H_{cj}$ | Typ          | -%/°C             | 0.8    |
|  |              |                   |        |
| Coercivity                                 | $H_{cb}$ Typ | kA/m              | 1090.5 |
|  | $H_{cb}$ Min | kA/m              | 1043   |
|  | $H_{cj}$ Typ | kA/m              | 1114   |
|  | $H_{cj}$ Min | kA/m              | 1114   |
| Curie temperature                          | Min          | °C                | 320    |
| Max operating temp                         | Typ          | °C                | 100    |
| Magnetising field strength                 | Typ          | kA/m              | 3000   |

| Mechanical values    |     | 20°C                              |           |
|----------------------|-----|-----------------------------------|-----------|
| Density              | Typ | g/cm <sup>3</sup>                 | 7.50      |
| Hardness             | Typ | HV                                | 500 - 520 |
| Elasticity Modulus   | Typ | 10 <sup>9</sup> N/MM <sup>2</sup> | 135       |
| Compressive Strength | Typ | N/mm <sup>2</sup>                 | 980       |
| Flexural Strength    | Typ | N/mm <sup>2</sup>                 | 260       |
| Spec. Heat Capacity  | Typ | J/(kg-K)                          | 410       |
| Thermal Conductivity | Typ | W/mK                              | 7         |