



**MATERIAL DATA**

| Magnetic values                               |                     | 20°C              |       |
|---|---------------------|-------------------|-------|
| Maximum Energy Product<br>BH <sub>(max)</sub> | Typ                 | KJ/m <sup>3</sup> | 279   |
|   | Min                 | KJ/m <sup>3</sup> | 263   |
| Remanence<br>Br                               | Typ                 | mT                | 1205  |
|   | Min                 |                   | 1170  |
| Reversible temp<br>coefficient of Br          | Typ                 | -%/°C             | 0.09  |
|   |                     |                   |       |
| Reversible temp<br>coefficient of Hcj         | Typ                 | -%/°C             | 0.5   |
|   |                     |                   |       |
| Coercivity                                    | H <sub>cb</sub> Typ | kA/m              | 916   |
|   | H <sub>cb</sub> Min | kA/m              | 868   |
|   | H <sub>cj</sub> Typ | kA/m              | 2388  |
|   | H <sub>cj</sub> Min | kA/m              | 2388  |
| Curie temperature                             | Min                 | °C                | 380   |
| Max operating temp                            | Typ                 | °C                | 180   |
| Magnetising field strength                    | Typ                 | kA/m              | 10000 |

| 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         |