



**MATERIAL DATA**

Magnetic values according to DIN IEC 60404-8-1

|   |                      |                   |                     |
|---|----------------------|-------------------|---------------------|
| Energy product (B·H) <sub>max.</sub>              | typ.                 | kJ/m <sup>3</sup> | 52                  |
|   | min.                 | kJ/m <sup>3</sup> | 43                  |
| Remanence B <sub>r</sub>                          | typ.                 | mT                | 580                 |
|   | min.                 | mT                | 540                 |
| Revers. temp. coeff. of B <sub>r</sub>            | ca.                  | %/K               | -0,19 <sup>1)</sup> |
| Coercivity H <sub>c</sub>                         | H <sub>cb</sub> typ. | kA/m              | 390                 |
|   | H <sub>cb</sub> min. | kA/m              | 350                 |
|   | H <sub>cJ</sub> typ. | kA/m              | 700                 |
|   | H <sub>cJ</sub> min. | kA/m              | 600                 |
| Revers. temp. coeff. of H <sub>cJ</sub>           | ca.                  | %/K               | -0,36 <sup>1)</sup> |
| Relative permanent permeability μ <sub>rec.</sub> | ca.                  |                   | 1,2                 |
| Curie temperature                                 | ca.                  | °C                | 219                 |
| Magnetising field strength                        | min.                 | kA/m              | 2800                |

|                       |      |    |                   |
|-----------------------|------|----|-------------------|
| Operating temperature | max. | °C | 140 <sup>2)</sup> |
|-----------------------|------|----|-------------------|

**Mechanische Werte**

|         |     |                   |     |
|---------|-----|-------------------|-----|
| Density | ca. | g/cm <sup>3</sup> | 5.8 |
|---------|-----|-------------------|-----|

<sup>1)</sup> In the temperatur range from 20 °C to 100 °C.

<sup>2)</sup> The max. operating temperature depends on the duration, the magnet dimensions and the specific application. High temperatures can adversely affect the mechanical characteristics with increasing exposure time.

Please contact our application engineering for more information.

All values indicated were determined on a sample (10 mm x 10 mm x 5 mm) according to IEC 60404-5. For unfavourable geometries, especially for thin magnets, the excessively fast solidification process can cause the material data to be less than optimal.