

Specifications

| | | | | | |
|---------------------|---------------------------------|-----------|-----------------|-------------------|-------------------------|
| Product Name | Neodymium Φ 18mmx14.5mm | | | | |
| Product Code | ND0592 | | | | |
| Content | Name | Symbol | SI | | CGS |
| Shape | Diameter | D | 18 | mm | 1.8 cm |
| | Height | H | 14.5 | mm | 1.45 cm |
| | Dimensional tolerance +/- | D | 0.1 | mm | 0.01 cm |
| | | H | 0.1 | mm | 0.01 cm |
| | Magnetization direction | M | Axial direction | | |
| Surface treatment | NiCuNi | 12 | μ m | - | |
| Magnetic Properties | Surface flux density | B | 498 | mT | 4980 G |
| | Attractive and Adsorptive Force | F | 10 | kgf | 10093 gf |
| | Operating Point Flux Density | Bd | 851.6 | mT | 8516 G |
| | Total Flux | ϕ_o | 0.0002167 | Wb | 21670 Mx |
| | Permeance Coefficient | Pc | 2.6 | Pc | - |
| | Operating Temperature Limit | Tw | 100 | $^{\circ}$ C | 212 $^{\circ}$ F |
| Material Properties | Material Symbol | Neodymium | 35 | | |
| | Residual Flux Density | Br | 1170-1220 | mT | 11.7-12.2 kG |
| | Coercive Force | Hcb | \geq 868 | kA/m | \geq 10.9 kOe |
| | Intrinsic coercive force | Hcj | \geq 955 | kA/m | \geq 12 kOe |
| | Maximum energy product | BH | 263-287 | kJ/m ³ | 33-36 MGOe |
| | Temperature coefficient | Br | -0.12 | %/ $^{\circ}$ C | 31.78 %/ $^{\circ}$ C |
| | | Hcj | -0.55 | %/ $^{\circ}$ C | 31.01 %/ $^{\circ}$ C |
| | Heat resistance temperature | Tw | \leq 80 | $^{\circ}$ C | \leq 176 $^{\circ}$ F |
| | Curie temperature | Tc | 310 | $^{\circ}$ C | 590 $^{\circ}$ F |
| | Density | ρ | 7.5 | kg/m ³ | - |
| Weight | Net | 0.0276 | kg | 27.6 g | |
| Remarks | REACH RoHS Directive | | | | |

All magnetic property values are for reference only. Please use them only as reference values when referring to actual magnetic application products or for research and development. We are not responsible for any liability resulting from the use of reference values. The contents of this document are subject to change without notice due to improvements or other reasons.