# Specifications

| Product Name | Neodymium Φ10mmx10mm | | | | | |
|---|---|---|---|---|---|---|
| Product Code | ND0022 | | | | | |
| Content | Name | Symbol | SI | | CGS | |
| Shape | Diameter | D | 10 | mm | 1 | cm |
| | Height | H | 10 | mm | 1 | 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 | μm | - | |
| Magnetic Properties | Surface flux density | B | 491.1 | mT | 4911 | G |
| | Attractive and Adsorptive Force | F | 3.45 | kgf | 3452 | gf |
| | Operating Point Flux Density | Bd | 917 | mT | 9170 | G |
| | Total Flux | φo | 0.00007202 | Wb | 7202 | Mx |
| | Permeance Coefficient | Pc | 3.47 | Pc | - | |
| | Operating Temperature Limit | Tw | 105 | ℃ | 221 | ˚F |
| Material Properties | Material Symbol | Neodymium | 35 | | | |
| | Residual Flux Density | Br | 1170-1220 | mT | 11.7-12.2 | kG |
| | Coercive Force | Hcb | ≧868 | kA/m | ≧10.9 | kOe |
| | Intrinsic coercive force | Hcj | ≧955 | kA/m | ≧12 | kOe |
| | Maximum energy product | BH | 263-287 | kJ/m3 | 33-36 | MGOe |
| | Temperature coefficient | Br | -0.12 | %/℃ | 31.78 | %/℃ |
| | | Hcj | -0.55 | %/℃ | 31.01 | %/℃ |
| | Heat resistance temperature | Tw | ≦80 | ℃ | ≦176 | ˚F |
| | Curie temperature | Tc | 310 | ℃ | 590 | ˚F |
| | Density | ρ | 7.5 | kg/m3 | - | |
| | Weight | Net | 0.00589 | kg | 5.89 | g |
| Remarks | REACH RoHS Directive | | | | | |

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