

## Specifications

These disc magnets are 0.250 inch (6.4mm) diameter and 0.063 inch (1.6mm) thick. They are magnetized through the thickness. They are composed of grade 40 neodymium iron boron magnetic material and are plated in nickel-copper-nickel for a shiny corrosion resistant finish. Maximum working temperature is 176 F (80 C).



|                         |                                        |
|-------------------------|----------------------------------------|
| Part Number             | NSN0657                                |
| Imperial Dimensions     | 0.25 inch diameter x 0.0625 inch thick |
| Metric Dimensions       | 6.35mm diameter x 1.5875mm thick       |
| Material                | Sintered Neodymium-Iron-Boron (NdFeB)  |
| Shape                   | Disc                                   |
| Plating                 | Ni-Cu-Ni (Nickel)                      |
| Magnetization Direction | Thickness                              |
| Grade                   | N40                                    |
| Pull Force              | 1.35[612]                              |
| Surface Field           | 2528                                   |
| Packaging               | Magpak Tube                            |
| UPC                     | 875661000573                           |
| Magnet Quantity         | 80                                     |
| Brand                   | Magcraft                               |

|                                                               |                       |
|---------------------------------------------------------------|-----------------------|
| Maximum Operating Temperature                                 | 80 Deg C (176 Deg F)  |
| Maximum Energy Product Bhmax (MGOe (kJ/m3))                   | 38-41 [302-326]       |
| Remanent Flux Density Br (kG (T))                             | 12.5-12.8 [1.25-1.28] |
| Coercivity HcB (kOe (kA/m))                                   | ≥11.3 [≥923]          |
| Intrinsic Coercivity Hcj (kOe (kA/m))                         | ≥12.0 [≥995]          |
| Dimensional Tolerance                                         | +/-0.005"             |
| Density ρ (g/cm3)                                             | ≥7.45                 |
| Compression Strength (Mpa)                                    | 600-1200              |
| Bending Strength (Mpa)                                        | 150-380               |
| Vickers Hardness (HV)                                         | 460-660               |
| Recoil Permeability (μrec)                                    | 1.05                  |
| Electrical Resistance (Ω·mm2/m)                               | 1.25-1.55             |
| Curie Temperature Tc (°C)                                     | 310                   |
| Thermal Expansion Coefficient 100°C // (x10 <sup>-6</sup> /K) | 6                     |
| Thermal Expansion Coefficient 100°C ⊥ (x10 <sup>-6</sup> /K)  | -1                    |

