

Axial Disc Magnets for Magnetic Encoders

The axial disc magnets from Dexter come in standard sizes and technical specifications. As with any product from Dexter, you can guarantee superior performance. Use the technical specifications chart to find the magnet for your requirements.

Part Numbers:	2910042-1	2910043-1	2910044-1	2910045-1
Physical Data				
Diameter (ø)	2.0 +/- 0.1mm	4.0 +/- 0.1mm	6.0 +/- 0.1mm	8.0 +/- 0.1mm
Thickness (T)	0.8 +/- 0.05mm	2.5 +/- 0.05mm	2.5 +/- 0.05mm	2.5 +/- 0.05mm
Density	7.6 g / cc	7.6 gram/cc	7.6 gram/cc	7.6 gram/cc
Mass	≈0.02 g	~0.24 gram	~0.53 gram	~0.96 gram
Linear Coefficient of Thermal Expansion (CTE)	5.0 to 8.0x10 ⁻⁶ °C ⁻¹	5.0 to 8.0x10 ⁻⁶ °C ⁻¹	5.0 to 8.0x10 ⁻⁶ °C ⁻¹	5.0 to 8.0x10 ⁻⁶ °C ⁻¹

Magnetic Characteristics

Material	Neodymium	Neodymium	Neodymium	Neodymium
Energy Grade	35 MGOe	35 MGOe	35 MGOe	35 MGOe
Temp Coefficient of Magnetic Field Strength	-0.15% °C ⁻¹	-0.15% °C ⁻¹	-0.15% °C ⁻¹	-0.15% °C ⁻¹
Max. Operating Temp.	150°C	150°C	150°C	120°C
Coating	Nickel Plating	Nickel Plating	Nickel Plating	Nickel Plating



