

# Product specification

Product name	Neodymium Dia12mmX2mm				
Item	Name	Symbol	SI		CGS
Shape	Diameter	D	12	mm	1.2 cm
	Height	H	2	mm	0.2 cm
	Dimensional tolerance +/-	D	0.1	mm	0.01 cm
		H	0.1	mm	0.01 cm
	Direction of magnetization	M	Assiale		
Surface treatment	Ni	12	$\mu$ m		
Measuring point	Surface flux density	B	178	mT	1780 G
	Attractive force	F	1.3	kgf	1302 gf
	Magnetic flux density on load point	Bd	320.5	mT	3205 G
	Total flux	Dia o	0.00003625	Wb	3625 Mx
	Permeance coefficient	Pc	0.39	Pc	-
	Operating temperature range	Tw	70	deg C	158 deg F
	Operating temperature range	Tw	-	deg C	- deg F
Material characteristics	Material grade	Neodymium	35		
	Remanence	Br	1170-1220	mT	11.7-12.2 kG
	Coercive forces	Hcb	>868	kA/m	>10.9 kOe
	Intrinsic coercivity	Hcj	>955	kA/m	>12 kOe
	Maximum energy product	BH	263-287	kJ/m <sup>3</sup>	33-36 MGOe
	Temperature coefficient	Br	-0.12	%/deg C	31.78 %/deg F
		Hcj	-0.55	%/deg C	31.01 %/deg F
	Max. operating temperature	Tw	<80	deg C	<176 deg F
	Curie temperature	Tc	310	deg C	590 deg F
	Density	P	7.5	kg/m <sup>3</sup>	-
Weight	Net	0.00169	kg	1.69 g	
Remark	REACH RoHS Directive				

Information on these magnetic characteristics are approximate and reference values. When using the calculated values for actual magnetic application products and research and development of the application of magnetic products, use these values as reference values. We are not responsible for the results from the reference values. The details can be found by referring to the product specifications. All specifications are subject to change without notice.