

# Product name : D25 x d7,5/4,5 x 5 / N38 - Neodymium magnet (NdFeB)

## **PERFORMANCE PARAMETERS**

External diameter	25 [mm] +0,1/-0,1
Aperture diameter for head of a screw	7,5 [mm] +0,1/-0,1
Internal diameter	4,5 [mm] +0,1/-0,1
Height	5 [mm] +0,1/-0,1
Magnetizing direction along dimension	5 [mm]
Direction of magnetization along the height means that one circular surface N-pole, while the other – opposite – circular surface refers to the S-pole.	e of a magnet makes the
Grade	N38
Magnet type	Neodymium
Maximal hoisting capacity	8,66 [kg]
times smaller. The air gap comprised between the metal sheet and a mag the pull force. Magnetic field in geometrical center of the magnetic pole surface	0,3 [T]
Coating	Nickel-plated (NiCuNi)
Maximum working temperature	≤ 80 °[C]
For flat magnets and magnets mounted in the open magnetic circuit wor insignificantly lower. For high magnets and magnets mounted in the close temperature equals max. working temperature for a given material. 310°[C]. Temperature coefficient of remanence TK(Br: approx. ~0, coefficient of coercivity TK(HcJ): approx0,6 %/°[C].	d magnetic circuit working Curie's temperature is ~
Magnetic moment	23900
Weight	17,4 [g]
Sintered neodymium magnets are brittle (fragile). A neodymium magnet witho after an impact with another strong magnet.	
All the numbers quoted were obtained as a result of tests with one specific iter	n in a room temperature

All the numbers quoted were obtained as a result of tests with one specific item in a room temperature and are intended to serve for comparison of practical magnetic properties of magnets offered by the shop.

## **MAGNETIC PROPERTIES OF MATERIAL GRADE N38**

	1,21 - 1,25 [T]	
coercivity H <sub>c</sub> B	min. 899 [kA/m]	
coercivity HJ	min. 955 [kA/m]	
energy product (BH) <sub>max</sub>	286 - 302 [kJ/m³]	
Magnetic properties of a particular material, together with its shape, volume, max. working temperature and direction of magnetization have influence on practical magnetic properties of a magnet.		
As an example, you will find attached a graph of a course of the II quadrant of magnetic		

## **MAGNETIC PROPERTIES OF MATERIAL GRADE N38**

density	~7,5 [g/cm3]
Vickers hardness (HV)	~600 [kg/mm2]
resistivity	~144 [uOhm x cm]

### **TECHNICAL DRAWING**

