



Product name : Spot holding magnet 35/21 x 9 / N

PERFORMANCE PARAMETERS

External diameter	35 [mm] +0,1/-0,1
Height	9 [mm] +0,1/-0,1
magnetizing direction along dimension	9 [mm]
Direction of magnetization along the height means that one circular surface of a magnet makes the N-pole, while the other - opposite - circular surface refers to the S-pole.	
Magnetizing direction - additional field	Quadrupole magnetized through thickness [st.]
Magnet type	Neodymium
Maximal hoisting capacity	2,4 [kg]
The pull force was measured by using metal sheet 10 [mm] thick, acting with perpendicular detaching force. With the force acting on the sliding off, the lifting capacity of the magnet will be 5 times smaller. The air gap comprised between the metal sheet and a magnet causes reduction in the pull force.	
Maximum working temperature	$\leq 80\text{ }^{\circ}\text{C}$
For flat magnets and magnets mounted in the open magnetic circuit working temperature may be insignificantly lower. For high magnets and magnets mounted in the closed magnetic circuit working temperature equals max. working temperature for a given material. Curie's temperature is $\sim 310^{\circ}\text{C}$. Temperature coefficient of remanence $\text{TK}(\text{Br})$: approx. $\sim 0,12\text{ }^{\circ}\text{C}^{-1}$. Temperature coefficient of coercivity $\text{TK}(\text{Hc})$: approx. $-0,6\text{ }^{\circ}\text{C}^{-1}$.	
adhesive	yes
For tools	yes
for the kitchen use	yes
for the small parts holding	yes
Weight	25 [g]
Sintered neodymium magnets are brittle (fragile). A neodymium magnet without housing could break after an impact with another strong magnet.	
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

density	$\sim 7,5\text{ [g/cm}^3\text{]}$
Vickers hardness (HV)	$\sim 600\text{ [kg/mm}^2\text{]}$
resistivity	$\sim 144\text{ [}\mu\text{Ohm x cm]}$

