

Product name: D5 x 18 / Alnico2 / LNG12 - AlNiCo magnet

PERFORMANCE PARAMETERS

External diameter	5 [mm] +0,1/-0,1
Height	18 [mm] +0,1/-0,1
magnetizing direction along dimension	18 [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	LNG12
Magnet type	AlNiCo
Maximal hoisting capacity	0,16 [kg]
The pull force was measured by using metal sheet 10 [mm] thick, acting w detaching force. With the force acting on the sliding off, the lifting capacity times smaller. The air gap comprised between the metal sheet and a magr the pull force.	of the magnet will be 5
Magnetic field in geometrical center of the magnetic pole surface	0,049 [T]
Maximum working temperature	450 °[C]
For flat magnets and magnets mounted in the open magnetic circuit work insignificantly lower. For high magnets and magnets mounted in the closed temperature equals max. working temperature for a given material. (860°[C]. Temperature coefficient of remanence TK(Br): approx0,0 coefficient of coercivity TK(HcJ): approx. +0,02 [%/°C].	I magnetic circuit working Curie's temperature is ~
Magnetic moment	160,74
Weight	2,52 [g]
AlNiCo Magnets may be used in water.	
All the numbers quoted were obtained as a result of tests with one specific iten and are intended to serve for comparison of practical magnetic properties of m shop.	•

MAGNETIC PROPERTIES OF MATERIAL GRADE LNG12

remanence B _r	0,7 [T]
coercivity H _d	min. 44[kA/m]
energy product (BH) _{max}	12,4 [kJ/m ³]
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.	
These magnets are often used in guitar snap.	

PHYSICAL PROPRIETIES

[~1,3 [q/cm3]	density	~7.3 [g/cm3]
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