

Product name : 29,3 x 20 x 13,6 / F35 - ferrite magnet

PERFORMANCE PARAMETERS

Length	29,3 [mm] +2,5%/-2,5%
Width	20 [mm] +2,5%/-2,5%
Height	13,6 [mm] +0,1/-0,1
magnetizing direction along dimension	13,6 [mm]
Direction of magnetization along the height (the last dimension included in a magnet name) means	

that the surface of a magnet perpendicular to its height makes the N-pole, while the other surface perpendicular to the height refers to the S-pole;.

rade

F35

Grade	F35
Magnet type	Ferrite
Maximal hoisting capacity	2,1 [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 | 250 °[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 $\sim 450^{\circ}$ [C]. Temperature coefficient of remanence TK(Br): approx. -0,19 %/°[C]. Temperature coefficient of coercivity TK(HcJ): approx. 0,40 %/°[C].

water-resistant	yes
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Ferrite magnets do not require anticorrosive protection. They my be used in water. As ceramic magnets, ferrite magnets are brittle.

١	Veight	35,86 [g]	1
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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 F35

remanence B _r	min. 0,41 [T]
coercivity H _c B	min. 208 [kA/m]
coercivity H _c J	min. 212 [kA/m]
energy product (BH) _{max}	min. 30,4 [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.

As an example, you will find attached a graph of a course of the II quadrant of magnetic hysteresis loop for a material grade F35.

PHYSICAL PROPRIETIES

density	~4,5 [g/cm3]
resistivity	10 ⁴ - 10 ⁸ [uOhm x cm]

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