

Data sheet article FE-S-20-10

Technical data and application safety

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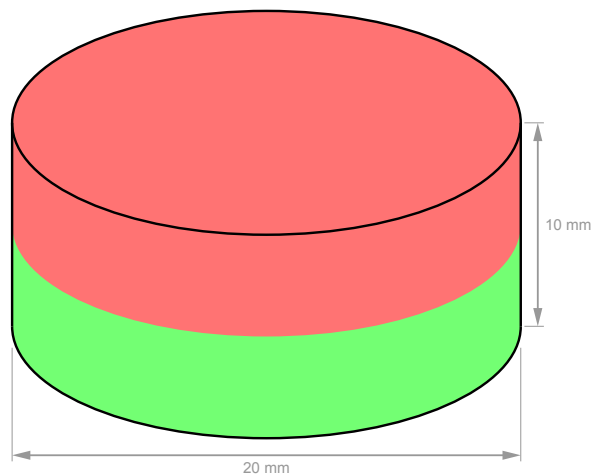
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1. Technical information

Disc magnet Ø 20 mm, height 10 mm, holds approx. 1,4 kg, ferrite, Y35, no coating

Article ID	FE-S-20-10
EAN	7640155432078
Material	Ferrite
Shape	Disc
Diameter	20 mm(+/- 0,1 mm)
Height	10 mm(+/- 0,1 mm)
Direction of magnetisation	axial (parallel to height)
Coating	No coating
Manufacturing method	sintered
Magnetisation	Y35
Strength	approx. 1,4 kg (approx. 13,7 N)
Displacement force	approx. 270 g (approx. 2,65 N)
Max. working temperature	250°C
Colour	Grey
Weight	15,2367 g
Curie temperature	450 °C
Residual magnetism Br	4000-4100 G, 0.40-0.41 T
Coercive field strength bHc	2.20-2.45 kOe, 175-195 kA/m
Coercive field strength iHc	2.26-2.51 kOe, 180-200 kA/m
Energy product (BxH)max	3.8-4.0 MGOe, 30.0-32.0 kJ/m ³




Product compliant with the latest European RoHS directive.




Product compliant with the latest European REACH regulation.


2. Safety tips


	<p>Danger</p>
	<p>Swallowing</p> <p>Children could swallow small magnets. If several magnets are swallowed, they could get stuck in the intestine and cause perilous complications.</p>
	<p>Magnets are not toys! Make sure that children don't play with magnets.</p>


<p>Warning</p> 	<p>Pacemaker</p> <p>Magnets could affect the functioning of pacemakers and implanted heart defibrillators.</p> <ul style="list-style-type: none"> • A pacemaker could switch into test mode and cause illness. • A heart defibrillator may stop working.
	<ul style="list-style-type: none"> • If you wear these devices keep sufficient distance to magnets: www.supermagnete.de/eng/faq/distance • Warn others who wear these devices from getting too close to magnets.

3. Handling and storing


<p>Caution</p> 	<p>Magnetic field</p> <p>Magnets produce a far-reaching, strong magnetic field. They could damage TVs and laptops, computer hard drives, credit and ATM cards, data storage media, mechanical watches, hearing aids and speakers.</p>
	<ul style="list-style-type: none"> • Keep magnets away from devices and objects that could be damaged by strong magnetic fields. • Please refer to our table of recommended distances: www.supermagnete.de/eng/faq/distance


<p>Notice</p> 	<p>Influence on people</p> <p>According to the current level of knowledge, magnetic fields of permanent magnets do not have a measurable positive or negative influence on people. It is unlikely that permanent magnets constitute a health risk, but it cannot be ruled out entirely.</p>
	<ul style="list-style-type: none"> • For your own safety, avoid constant contact with magnets. • Store large magnets at least one metre away from your body.

<p>Notice</p> 	<p>Temperature resistance</p> <p>Ferrite magnets can be used at temperatures between -40°C and 250°C. At lower and higher temperatures they lose part of their adhesive force permanently.</p>
	<p>Don't use ferrite magnets in places where they are exposed to temperatures below -40°C or above 250°C.</p>

<p>Notice</p> 	<p>Mechanical treatment</p> <p>Ferrite magnets are brittle. When drilling or sawing a magnet with improper tools, the magnet may break.</p>
	<p>Stay away from mechanical treatment of magnets if you do not possess the necessary equipment and experience.</p>

4. Transportation tips

<p>Caution</p> 	<p>Airfreight</p> <p>Magnetic fields of improperly packaged magnets could influence airplane navigation devices. In the worst case it could lead to an accident.</p>
	<ul style="list-style-type: none"> • Airfreight magnets only in packaging with sufficient magnetic shielding. • Please refer to the respective regulations: www.supermagnete.de/eng/faq/airfreight

<p>Caution</p> 	<p>Postage</p> <p>Magnetic fields of improperly packaged magnets could cause disturbances in sorting machines and damage fragile goods in other packages.</p>
	<ul style="list-style-type: none"> • Please refer to our shipping tips: www.supermagnete.de/eng/faq/shipping • Use a large box and place the magnet in the middle surrounded by lots of padding material. • Arrange magnets in a package in a way that the magnetic fields neutralise each other. • If necessary, use sheet iron to shield the magnetic field. • There are stricter rules for airfreight: Refer to the warning notice "Airfreight".

TARIC-Code: 8505 1910 90 0

Origin: China

For more information about magnets please review
<https://www.supermagnete.de/eng/faqs>.

Last update: 20/05/2024