Data sheet article FE-S-40-20

Technical data and application safety

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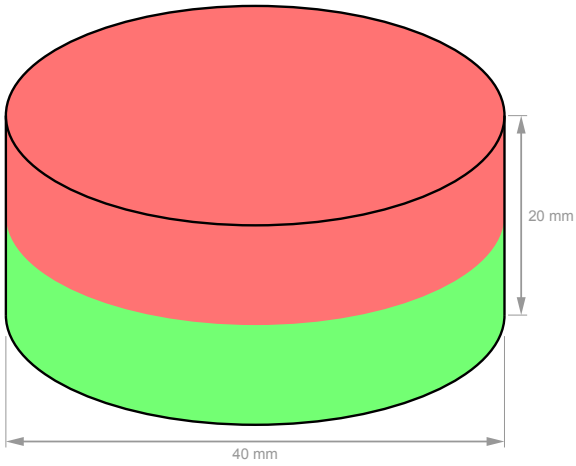
1. Technical information

Disc magnet Ø 40 mm, height 20 mm, holds approx. 4,7 kg, ferrite, Y35, no coating

Article ID	FE-S-40-20
EAN	7640155432153
Material	Ferrite
Shape	Disc
Diameter	40 mm(+/- 0,8 mm)
Height	20 mm(+/- 0,1 mm)
Direction of magnetisation	axial (parallel to height)
Coating	No coating
Manufacturing method	sintered
Magnetisation	Y35
Strength	approx. 4,7 kg (approx. 46,1 N)
Displacement force	approx. 940 g (approx. 9,22 N)
Max. working temperature	250°C
Weight	121,8937 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/m³



Product compliant with the latest European RoHS directive.

Product compliant with the latest European REACH regulation.

2. Safety tips

Warning

Pacemaker

Magnets could affect the functioning of pacemakers and implanted heart defibrillators.
- A pacemaker could switch into test mode and cause illness.
- A heart defibrillator may stop working.

- If you wear these devices keep sufficient distance to magnets: www.supermagnete.at/eng/faq/distance
- Warn others who wear these devices from getting too close to magnets.

3. Handling and storing

Caution

Magnetic field

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.

- 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.at/eng/faq/distance

Notice

Influence on people

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.

- For your own safety, avoid constant contact with magnets.
- Store large magnets at least one metre away from your body.

Notice

Temperature resistance

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.

Don't use ferrite magnets in places where they are exposed to temperatures below -40°C or above 250°C.

Notice

Mechanical treatment

Ferrite magnets are brittle.
When drilling or sawing a magnet with improper tools, the magnet may break.

Stay away from mechanical treatment of magnets if you do not possess the necessary equipment and experience.

4. Transportation tips

Caution

Airfreight

Magnetic fields of improperly packaged magnets could influence airplane navigation devices.
In the worst case it could lead to an accident.

- Airfreight magnets only in packaging with sufficient magnetic shielding.
- Please refer to the respective regulations: www.supermagnete.at/eng/faq/airfreight

Caution

Postage

Magnetic fields of improperly packaged magnets could cause disturbances in sorting machines and damage fragile goods in other packages.

- Please refer to our shipping tips: www.supermagnete.at/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.at/eng/faqs.

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