

## Data sheet article FE-S-40-20

### Technical data and application safety

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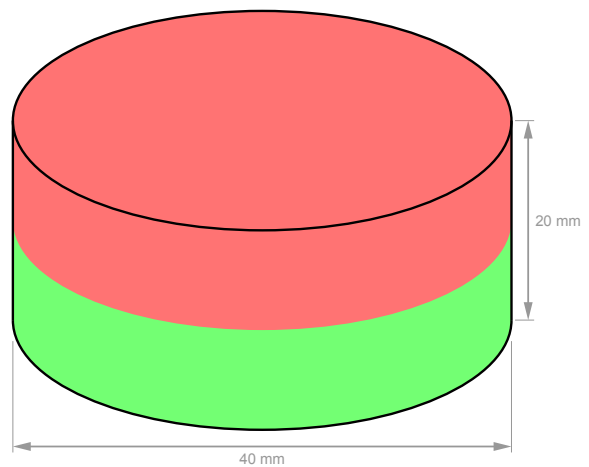
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## 1. Technical information

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/m <sup>3</sup>



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.fi/faq/distance](http://www.supermagnete.fi/faq/distance)
- Warn others who wear these devices from getting too close to magnets.

### 3. Handling and storing

<p><b>Caution</b></p> 	<p><b>Magnetic field</b></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"> <li>• Keep magnets away from devices and objects that could be damaged by strong magnetic fields.</li> <li>• Please refer to our table of recommended distances: <a href="http://www.supermagnete.fi/faq/distance">www.supermagnete.fi/faq/distance</a></li> </ul>
<p><b>Notice</b></p> 	<p><b>Influence on people</b></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"> <li>• For your own safety, avoid constant contact with magnets.</li> <li>• Store large magnets at least one metre away from your body.</li> </ul>
<p><b>Notice</b></p> 	<p><b>Temperature resistance</b></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><b>Notice</b></p> 	<p><b>Mechanical treatment</b></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><b>Caution</b></p> 	<p><b>Airfreight</b></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"> <li>• Airfreight magnets only in packaging with sufficient magnetic shielding.</li> <li>• Please refer to the respective regulations: <a href="http://www.supermagnete.fi/faq/airfreight">www.supermagnete.fi/faq/airfreight</a></li> </ul>
<p><b>Caution</b></p> 	<p><b>Postage</b></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"> <li>• Please refer to our shipping tips: <a href="http://www.supermagnete.fi/faq/shipping">www.supermagnete.fi/faq/shipping</a></li> <li>• Use a large box and place the magnet in the middle surrounded by lots of padding material.</li> <li>• Arrange magnets in a package in a way that the magnetic fields neutralise each other.</li> <li>• If necessary, use sheet iron to shield the magnetic field.</li> <li>• There are stricter rules for airfreight: Refer to the warning notice "Airfreight".</li> </ul>

**TARIC-Code:** 8505 1910 90 0

**Origin:** China

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

**Last update:** 17/04/2024