

## Data sheet article FE-S-20-03

### Technical data and application safety

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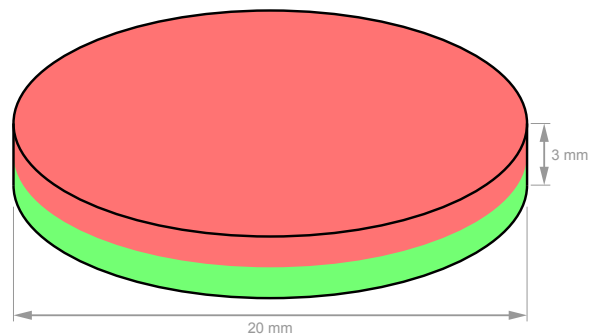
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## 1. Technical information

Disc magnet Ø 20 mm, height 3 mm, holds approx. 400 g, ferrite, Y35, no coating

Article ID	FE-S-20-03
EAN	7640155432054
Material	Ferrite
Shape	Disc
Diameter	20 mm(+/- 0,1 mm)
Height	3 mm(+/- 0,1 mm)
Direction of magnetisation	axial (parallel to height)
Coating	No coating
Manufacturing method	sintered
Magnetisation	Y35
Strength	approx. 400 g (approx. 3,92 N)
Displacement force	approx. 80 g (approx. 0,785 N)
Max. working temperature	250°C
Colour	Grey
Weight	4,5710 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

<p><b>Danger</b></p> 	<p><b>Swallowing</b></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>

### 3. Handling and storing

<b>Caution</b> 	<b>Magnetic field</b> 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. <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.fr/eng/faq/distance">www.supermagnete.fr/eng/faq/distance</a></li></ul>
<b>Notice</b> 	<b>Influence on people</b> 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. <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>
<b>Notice</b> 	<b>Temperature resistance</b> 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.
<b>Notice</b> 	<b>Mechanical treatment</b> 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

<b>Caution</b> 	<b>Airfreight</b> Magnetic fields of improperly packaged magnets could influence airplane navigation devices. In the worst case it could lead to an accident. <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.fr/eng/faq/airfreight">www.supermagnete.fr/eng/faq/airfreight</a></li></ul>
<b>Caution</b> 	<b>Postage</b> Magnetic fields of improperly packaged magnets could cause disturbances in sorting machines and damage fragile goods in other packages. <ul style="list-style-type: none"><li>• Please refer to our shipping tips: <a href="http://www.supermagnete.fr/eng/faq/shipping">www.supermagnete.fr/eng/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.fr/eng/faqs>.

**Last update:** 17/04/2025