

Data sheet article FE-R-40-22-09

Technical data and application safety

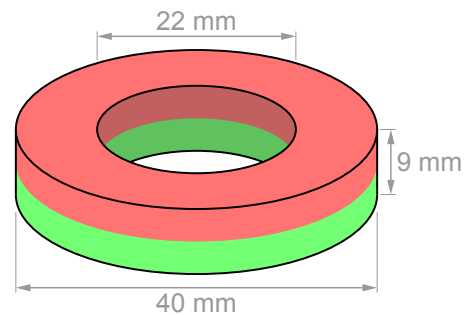
Webcraft GmbH
Industriepark 206
78244 Gottmadingen, Germany

Phone: +49 7731 939 839 2

www.supermagnete.de
support@supermagnete.de

1. Technical information

Article ID	FE-R-40-22-09
EAN	7640155431941
Material	Ferrite
Shape	Ring
Outer diameter	40 mm(+/- 0,8 mm)
Inner diameter	22 mm(+/- 0,44 mm)
Height	9 mm(+/- 0,1 mm)
Direction of magnetisation	axial (parallel to height)
Coating	no coating
Manufacturing method	sintered
Magnetisation	Y35
Strength	approx. 2,7 kg (approx. 26,5 N)
Displacement force	approx. 540 g (approx. 5300 N)
Max. working temperature	250°C
Weight	38,2594 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




Pollutant-free according to RoHS Directive 2011/65/EU.


2. Safety tips


Warning 	Pacemaker Magnets could affect the functioning of pacemakers and implanted heart defibrillators. <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.
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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. <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
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Caution 	<p>Nickel allergy</p> <p>Many of our magnets contain nickel, also those without nickel coating.</p> <ul style="list-style-type: none"> • Some people have an allergic reaction when they come into contact with nickel. • Nickel allergies could develop from perpetual contact with nickel-plated objects. <ul style="list-style-type: none"> • Avoid perpetual skin contact with magnets. • Avoid contact with magnets if you already have a nickel allergy.
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Notice 	<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.
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Notice 	<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>
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Notice 	<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>
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4. Transportation tips

Caution 	<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
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Caution 	<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".
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TARIC-Code: 8505 1100 99 0

Origin: China

For more information about magnets please review
www.supermagnete.de/faq.php.

Last update: 29/06/2012