

## Data sheet article FE-S-10-03

### Technical data and application safety

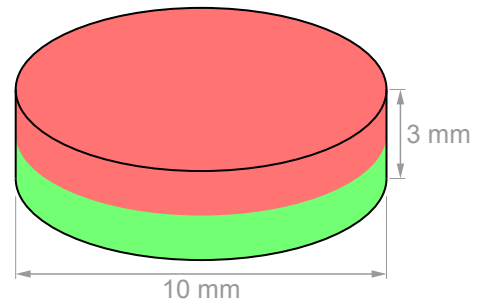
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### 1. Technical information

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| Article ID                  | FE-S-10-03                                |
| EAN                         | 7640155431989                             |
| Material                    | Ferrite                                   |
| Shape                       | Disc                                      |
| Diameter                    | 10 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. 200 g (approx. 1,96 N)            |
| Max. working temperature    | 250°C                                     |
| Weight                      | 1,1428 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> |





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


### 2. Safety tips


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|  | <p><b>Danger</b></p>  |
|   | <p><b>Swallowing</b></p> <p>Children could swallow small magnets.<br/>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

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|  | <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.de/eng/faq/distance">www.supermagnete.de/eng/faq/distance</a></li> </ul> |


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| <b>Caution</b><br> | <p><b>Nickel allergy</b></p> <p>Many of our magnets contain nickel, also those without nickel coating.</p> <ul style="list-style-type: none"> <li>• Some people have an allergic reaction when they come into contact with nickel.</li> <li>• Nickel allergies could develop from perpetual contact with nickel-plated objects.</li> </ul> <ul style="list-style-type: none"> <li>• Avoid perpetual skin contact with magnets.</li> <li>• Avoid contact with magnets if you already have a nickel allergy.</li> </ul> |
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| <b>Notice</b><br> | <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> |
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| <b>Notice</b><br> | <p><b>Temperature resistance</b></p> <p>Ferrite magnets can be used at temperatures between -40°C and 250°C.<br/>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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| <b>Notice</b><br> | <p><b>Mechanical treatment</b></p> <p>Ferrite magnets are brittle.<br/>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

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| <b>Caution</b><br> | <p><b>Airfreight</b></p> <p>Magnetic fields of improperly packaged magnets could influence airplane navigation devices.<br/>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.de/eng/faq/airfreight">www.supermagnete.de/eng/faq/airfreight</a></li> </ul> |
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| <b>Caution</b><br> | <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.de/eng/faq/shipping">www.supermagnete.de/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> |
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For more information about magnets please review [www.supermagnete.de/faq.php](http://www.supermagnete.de/faq.php).

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