

Data sheet article FE-S-70-15

Technical data and application safety

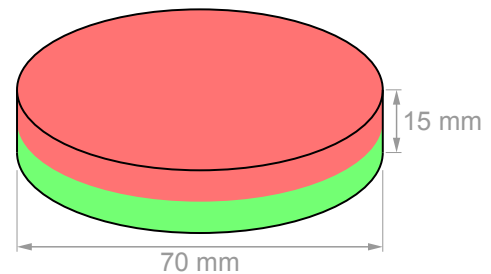
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1. Technical information

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| Article ID | FE-S-70-15 |
| EAN | 7640155432177 |
| Material | Ferrite |
| Shape | Disc |
| Diameter | 70 mm(+/- 1,4 mm) |
| Height | 15 mm(+/- 0,1 mm) |
| Direction of magnetisation | axial (parallel to height) |
| Coating | no coating |
| Manufacturing method | sintered |
| Magnetisation | Y35 |
| Strength | approx. 8,4 kg (approx. 82,4 N) |
| Displacement force | approx. 1,7 kg (approx. 16,5 N) |
| Max. working temperature | 250°C |
| Weight | 279,9746 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 |




Product compliant with the latest European RoHS directive.




Product compliant with the latest European REACH regulation.


2. Safety tips


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| <p>Warning</p>  | <p>Pacemaker</p> <p>Magnets could affect the functioning of pacemakers and implanted heart defibrillators.</p> <ul style="list-style-type: none"> • A pacemaker could switch into test mode and cause illness. • A heart defibrillator may stop working. <p>• If you wear these devices keep sufficient distance to magnets: www.supermagnete.fr/eng/faq/distance</p> <p>• Warn others who wear these devices from getting too close to magnets.</p> |
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| Warning | Heavy objects |
|  | <p>Too heavy loads, symptoms of fatigue as well as material defect could cause a magnet or magnetic hook to loosen from the surface that it was attached to. Falling objects could lead to serious injuries.</p> <ul style="list-style-type: none"> • The indicated adhesive force applies only to ideal conditions. Allow for a high safety cushion. • Don't use magnets in places where people could sustain injuries in case of material failure. |

3. Handling and storing


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| Caution | Magnetic field |
|  | <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"> • 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.fr/eng/faq/distance |


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| Notice | Influence on people |
|  | <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 | Temperature resistance |
|  | <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 | Mechanical treatment |
|  | <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

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| Caution | Airfreight |
|  | <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.fr/eng/faq/airfreight |

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| Caution | Postage |
|  | <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.fr/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 1100 99 0

Origin: China

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

Last update: 29/06/2012