

# Data sheet article FE-S-20-05

## Technical data and application safety

Webcraft AG  
Weiherallee 11a  
8610 Uster, Switzerland

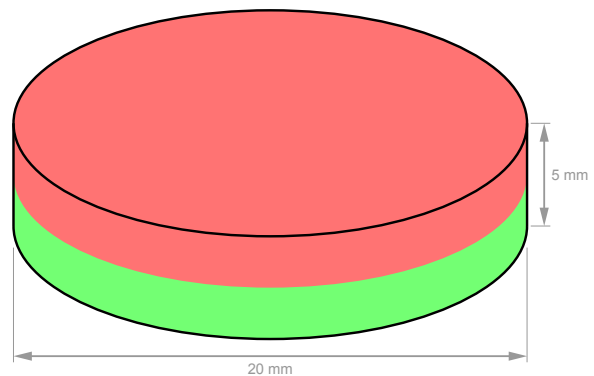
Phone: +41 43 399 03 51

www.supermagnete.ch  
support@supermagnete.ch

### 1. Technical information

Disc magnet Ø 20 mm, height 5 mm, holds approx. 700 g, ferrite, Y35, no coating

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Article ID                  | FE-S-20-05                                |
| EAN                         | 7640155432061                             |
| Material                    | Ferrite                                   |
| Shape                       | Disc                                      |
| Diameter                    | 20 mm(+/- 0.1 mm)                         |
| Height                      | 5 mm(+/- 0.1 mm)                          |
| Direction of magnetisation  | axial (parallel to height)                |
| Coating                     | No coating                                |
| Manufacturing method        | sintered                                  |
| Magnetisation               | Y35                                       |
| Strength                    | approx. 700 g (approx. 6.86 N)            |
| Displacement force          | approx. 140 g (approx. 1.37 N)            |
| Max. working temperature    | 250°C                                     |
| Colour                      | Grey                                      |
| Weight                      | 7.6184 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.<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>                                                                              |


|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Warning</b>                                                                    | <b>Pacemaker</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  | <p>Magnets could affect the functioning of pacemakers and implanted heart defibrillators.</p> <ul style="list-style-type: none"> <li>• A pacemaker could switch into test mode and cause illness.</li> <li>• A heart defibrillator may stop working.</li> </ul> <p>• If you wear these devices keep sufficient distance to magnets: <a href="http://www.supermagnete.ch/eng/faq/distance">www.supermagnete.ch/eng/faq/distance</a></p> <ul style="list-style-type: none"> <li>• Warn others who wear these devices from getting too close to magnets.</li> </ul> |

### 3. Handling and storing


|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Caution</b>                                                                    | <b>Magnetic field</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | <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.ch/eng/faq/distance">www.supermagnete.ch/eng/faq/distance</a></li> </ul> |


|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notice</b>                                                                     | <b>Influence on people</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |
|  | <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> |

|                                                                                    |                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notice</b>                                                                      | <b>Temperature resistance</b>                                                                                                                                                                                                                                                      |
|  | <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> |

|                                                                                     |                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notice</b>                                                                       | <b>Mechanical treatment</b>                                                                                                                                                                                                             |
|  | <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> |

### 4. Transportation tips

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Caution</b>                                                                      | <b>Airfreight</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |
|  | <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.ch/eng/faq/airfreight">www.supermagnete.ch/eng/faq/airfreight</a></li> </ul> |

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Caution</b>                                                                      | <b>Postage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  | <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.ch/eng/faq/shipping">www.supermagnete.ch/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> |

**Customs Tariff Number Tares:** 8505.1900

**Origin:** China

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

**Last update:** 12/03/2026