

## NEODYM Magnets: Instructions for safe handling

### Danger



### Swallowing

Children can swallow small magnets.

If several neodymium magnets are swallowed, they can accumulate in the intestine and cause life-threatening complications.

- Magnets are not toys! Make sure that the magnets do not get into the hands of children.

### Magnetic Field

Neodymium magnets generate a far-reaching, strong magnetic field.

### Caution



- Please do not place the magnetic lock directly on the magnetic strip of high-quality magnetic cards (credit card, EC card, bank card), or cheap magnetic cards (car park, fair entrance). A minimum distance of 6 mm from mechanical watches must be maintained.
- In cameras and smartphones there is no danger to the storage medium, nor are vehicle keys, USB sticks and CDs/DVDs at risk. Due to the small size of the magnets there is also no danger for pacemakers or implanted defibrillators.

### Caution



### Flammability

The drilling dust can easily ignite during mechanical processing of the magnets.

- Do without machining magnets or use suitable tools and sufficient cooling water.

### Nickel-Allergy

### Caution



Magnets contain Nickel.

Some people are allergic to contact with nickel.

Nickel allergies can develop when in constant contact with objects containing nickel.

- Avoid permanent skin contact with magnets.
- Do not use magnets if you are already allergic to nickel.

## Note



### Effect on people

According to current knowledge, the magnetic fields of permanent magnets have no measurable positive or negative effect on humans. A health hazard from the magnetic field of a permanent magnet is unlikely, but cannot be completely excluded.

- For your own safety, avoid permanent contact with the magnets.

## Note



### Chipping of the coating

Neodymium magnets have a thin coating to protect against corrosion. This coating can chip or crack due to collisions or high pressure. This makes the magnets more sensitive to environmental influences such as moisture and can cause them to oxidize.

- Avoid collisions between magnets and repeated mechanical loads (e.g. impacts).

### Mechanical processing

## Note



Neodymium magnets are brittle, heat-sensitive and oxidize easily..

- When drilling or sawing a magnet with an unsuitable tool, the magnet may break.
- The resulting heat can demagnetize the magnet.
- Because of the damaged coating, the magnet will oxidize and decay.

Do not mechanically process magnets if you do not have the necessary machines and experience.