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Safety Data Sheet

Handling instructions for permanent magnets, 11-2023

All persons handling magnetic materials must know and observe these instructions!

The attractive or repulsive forces of magnets can cause hazards.

Magnets can attract or repel each other even from large distances. This can lead to injuries!

Magnets can attract or repel metals! This can lead to injuries!

Maintain a minimum distance of 20 inch to metals and other magnets!

Only work with safety goggles or other protective measures!

Sintered magnets are hard, brittle and splinter into many sharp-edged pieces on impact. Any collision must therefore be avoided. The skin can be crushed by the large attractive forces.

Therefore, only work with protective gloves!

Attention: Fire hazard!

Magnets must not be handled in potentially explosive atmospheres because they can cause sparks. Grinding dust and swarf from rare earth magnets are also self-igniting and burn at high temperatures. Rare earth magnets without intact protective cover should therefore never be handled dry, but with plenty of water. Dried grinding sludge can also burn!

Strong magnetic fields!

Magnetic fields can interfere with or destroy electronic or mechanical elements and devices.

This applies in particular to pacemakers. The required safety distances can be found in the

manuals for these devices or can be obtained from the manufacturers. Never bring magnetic cards or chip cards near magnets! Danger of discharge!

Please note!

Permanent magnets must not be exposed to radioactive radiation for long periods of time, otherwise they may lose their magnetization. Please refer to the material specifications for the maximum permissible operating temperature. Rare earth magnets must be stored in a dry place so that they do not oxidize. Permanent magnets, especially rare earth magnets, are partially soluble in aggressive media (acids, alkalis), depending on the material. They must therefore not be used safely.

Influences on humans

There are no known adverse effects on humans from touching magnetic materials. For people with allergies to contact with ceramic or metallic materials, the same reactions are to be expected when coming into contact with magnetic materials. They should therefore not work with magnets. No adverse effects of the magnetic fields of permanent magnets on humans are known.

Classification according to safety and environment

All materials used in our range or scope of delivery are free of declarable ingredients. No hazardous substances can be produced or released when handling our materials. Our materials are not hazardous goods in the sense of traffic law / transportation law. Our materials do not contain any substances hazardous to water.

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Steuer-Nummern
USt ID: DE285946494
St.Nr: 135/5713/1919