

# HAZARD WARNINGS AND HANDLING GUIDELINES FOR MARNETS



Everyone who handles magnetic materials, especially rare earth magnetic materials, must know and observe these rules!

## **RISK OF INJURY FROM SPLINTERING AND CRUSHING — ALWAYS WORK WITH PROTECTIVE GLASSES OR OTHER PROTECTIVE EQUIPMENT**

Sintered magnets are hard and brittle. They shatter upon impact into many sharp fragments. Always avoid impact for this reason. Because of the strong attractive forces, magnets should be moved with great care when approaching other magnets or magnetic parts, to avoid crushing the skin.

For persons with allergies to contact with ceramic or metallic substances, the same reactions would be expected from contact with magnet materials of the same kind. They should not work with magnets without protection.

## **HAZARDS OF STRONG MAGNETIC FIELDS — KEEP A SAFE DISTANCE**

The basic restrictions related to human exposure to electromagnetic fields (0 Hz – 300 GHz) are defined in the DIN EN 50392. Strong magnetic fields can disrupt and destroy magnetic data carriers, such as credit cards, electronic and mechanical components and devices. Please consult the user guides to these devices about this or ask the manufacturers.

## **EXPLOSION AND FIRE HAZARD**

Magnets must not be handled in spaces with risk of explosion, since they can emit sparks on impact. When mechanically processing rare earth magnets, the grinding dust and shavings are a fire hazard. Therefore never work dry, always work with plenty of water. Even dried-out wheel swarf can ignite. In case of fire, only use sand or a powder fire extinguisher with metal fire powder!

## **OPERATING CONDITIONS**

Please note the limited operating conditions for different media and operating temperatures. Please refer to our data sheets or the Internet for the valid values.

## **STORAGE AND TRANSPORT GUIDELINES**

Rare earth magnets must be stored dry, so that they do not oxidise.

For transport as air cargo, observe the regulations for stray magnetic fields (IATA- Dangerous Goods Regulations). These regulations also apply to magnet assemblies.

If you have further questions about handling and using our magnet materials, please ask us. We are very happy to provide you with further information.

**MS-Schramberg GmbH & Co. KG**

Max-Planck-Straße 15

D-78713 Schramberg-Sulgen

info@ms-schramberg.de

www.ms-schramberg.de

**THE POWER OF THE WHOLE**