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### **Permanent magnets**

Magnet type Standard or special in relation to IP: who owns the IP (Intellectual Property)

Produ	ct
М	Magnet
МС	Magnet, Customer-specific
MA	Magnet, Customer-specific acc. AS9100
MT	Magnet, Customer-specific acc. IATF16949
MZ	Special magnet (when one of characters below = 'Z')

М	Standard magnet, the original design of which was made by Goudsmit.  The intellectual property (IP) does not belong to the customer.  The magnet has no special shape, dimensions and no exceptional coating.  Edge finishing and tolerance specifications are common and not extreme.
MC	Customer specific magnets for all kind of industries that comply with ISO9001 regulations.  The specifications and designs of the customer are leading and the intellectual property of the product rests with the customer.
МА	Magnets for the Aerospace and Hightech industry that comply with AS9100 regulations.  This industry puts safety and reliability first and requires manageable production processes of products that are traceable from origin to end of life.  The specifications and designs of the customer are leading and the intellectual property of the product rests with the customer.
МТ	Magnets for the automotive industry that comply with IATF16949 regulations.  This sector sets high quality requirements, whereby deviations are prevented by a mandatory APQP (Advanced Product Quality Planning) process approach.  The specifications and designs of the customer are leading and the intellectual property of the product rests with the customer.
MZ	Special magnet, the original design of which was made by Goudsmit.  The intellectual property (IP) does not belong to the customer.  The specifications with regard to shape, Quality, dimensions and finish are exceptional and deviate from the usual standard designs.

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#### **Permanent magnets**

#### Magnet material

A : Aluminium-nick				
Cast:				
A5A	GSA-5A			
A5B	GSA-5B			
A6	GSA-6			
A7	GSA-7			
A8A	GSA-8A			
A8B	GSA-8B			
A9A	GSA-9A			
A9B	GSA-9B			

kel-cobalt (AlNiCo)					
	Sintered:				
	AS5	GSAS-5			
	AS6	GSAS-6			
	AS8	GSAS-8			
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F Ferrite (SrFe)				
1 Territe (Orre)				
F10	GSF-10 (isotropic)			
F25	GSF-25 (anisotropic)			
F30	GSF-30 (anisotropic)			
F33	GSF-33 (anisotropic)			
F34	GSF-34 (anisotropic)			
F40	GSF-40 (anisotropic)			
F42	GSF-42 (anisotropic)			
F44	GSF-44 (anisotropic)			
F45	GSF-45 (anisotropic)			
F47	GSF-47 (anisotropic)			

S : Samarium-Cobalt (SmCo)				
S20	GSS-20			
S22	GSS-22			
S24	GSS-24			
S26	GSS-26			
S28	GSS-28			
S30	GSS-30			
S32	GSS-32			

iv : Neodymnam (ival eb)					
N35	GSN-35				
N38	GSN-38				
N40	GSN-40				
N42	GSN-42				
N45	GSN-45				
N48	GSN-48				
N50	GSN-50				
N52	GSN-52				
N54	GSN-54				
N35M	GSN-35M				
N38M	GSN-38M				
N40M	GSN-40M				
N42M	GSN-42M				
N45M	GSN-45M				
N48M	GSN-48M				
N50M	GSN-50M				
N52M	GSN-52M				
N35H	GSN-35H				
N38H	GSN-38H				
N40H	GSN-40H				
N42H	GSN-42H				
N45H	GSN-45H				
N48H	GSN-48H				
N50H	GSN-50H				
N52H	GSN-52H				
N33SH	GSN-33SH				
N35SH	GSN-35SH				
N38SH	GSN-38SH				
N40SH	GSN-40SH				
N42SH	GSN-42SH				
N45SH	GSN-45SH				
N48SH	GSN-48SH				
N50SH	GSN-50SH				
N52SH	GSN-52SH				
N30UH	GSN-30UH				
N33UH	GSN-33UH				
N35UH	GSN-35UH				
N38UH	GSN-38UH				
N40UH	GSN-40UH				
N42UH	GSN-42UH				
N45UH	GSN-45UH				
N48UH	GSN-48UH				
N50UH	GSN-50UH				

N ...: Neodymium (NdFeB)

N30EH	GSN-30EH
N33EH	GSN-33EH
N35EH	GSN-35EH
N38EH	GSN-38EH
N40EH	GSN-40EH
N42EH	GSN-42EH
N45EH	GSN-45EH
N28AH	GSN-28AH
N30AH	GSN-30AH
N33AH	GSN-33AH
N35AH	GSN-35AH
N38AH	GSN-38AH
N40AH	GSN-40AH
N42AH	GSN-42AH
N28VH	GSN-28VH
N30VH	GSN-30VH
N33VH	GSN-33VH
N35VH	GSN-35VH
N38VH	GSN-38VH

P : Neodymium (NdFe				
Compression:				
6C GSNB-6C				
8AC	GSNB-8AC			
8C	GSNB-8C			
8BC	GSNB-8BC			
8CC	GSNB-8CC			
9C	GSNB-9C			
10C	GSNB-10C			
11C	GSNB-11C			
11AC	GSNB-11AC			
12AC	GSNB-12AC			

eB) Polymer				
	Injection:			
	31	GSNB-3I		
	41	GSNB-4I		
	51	GSNB-5I		
	5AI	GSNB-5AI		
	61	GSNB-6I		
	6AI	GSNB-6AI		
	71	GSNB-7I		
1				

Q : Neodymium (NdFeB) Stabilized			
Q53N	GSNS53N		
Q50M	GSNS50M		
Q35EH	GSNS35EH		
Q30AH	GSNS30AH		
Q33AH	GSNS33AH		



### **Permanent magnets**

Magr	Magnetization direction				
Code	Description	Schematic	Isotropic	Anisotropic	Examples
A	Axial (single / alternating poles)	One pole pair  Alternating pole pairs	I	А	One pole pair: Speakers, holding devices, magnetic switches, insert gas switches Alternating poles: Synchronous motors, disc coupling
В	Through the height (thickness)	N S N N N N N N N N N N N N N N N N N N	ı	А	Filtering systems Clamping devices Magnetic chokes Switches
D	Radial	N N N 1 S N N N N N N N N N N N N N N N	I		Holding magnets Couplings (limited sizes available)
E	Diametric	s s	I		Synchronous motors
G	Multi-poled on outer contour	S N N N N N N N N N N N N N N N N N N N	ı		Dynamos Motors Concentric ring Couplings
Н	Multi-poled on inner contour	N S N N N N N N N N N N N N N N N N N N	I		Motors Concentric ring Couplings
l	One-sided multi-poled		ı		Memo magnets & flexible
J	Segment radial	S S S S	I	А	Motors
K	Segment diametric	S S S S S N N N N N N N N N N N N N N N	I	А	Motors
L	Lateral (in lines on surface)	F	I		Holding devices Magnetic chokes

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