



## 12 Samarium Cobalt Magnets

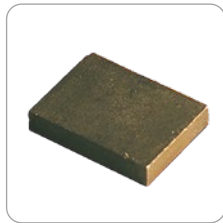
*The problem saver magnet material for qualified applications*

- Best magnetic stability
- Large Temperature range
- Good Temperature coefficient
- Corrosion resistant
- Narrow tolerance in dimensions available
- Observe brittleness in handling and use

**Sm<sub>2</sub>Co<sub>17</sub>**



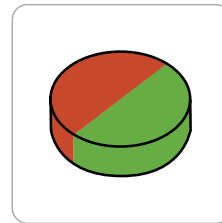
*Disk magnets*



*Parallelepiped magnets*



*Ring magnets*



*Diametrically magnetized magnets*



**\*Your enquiry**  
Size / shape / material / magnetization / SmCo5 /  
after drawing...

**Technical  
informations**

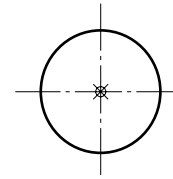
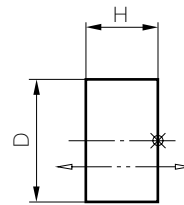


## Disk magnets

Materials: **Sm<sub>2</sub>Co<sub>17</sub> / Samarium Cobalt**

\*calculated values (10 N = ~1kg)

Execution: raw, height ground, magnetised on-axis



M415.8

Dimensions ±0.1mm		Materials	Stock no.	Temperature max. C	*Lift N	Weight g
D	H					
2.5	1.5	Sm26/16-17	<a href="#">M400.8</a>	300°	1.7	0.06
3.0	2.0	Sm26/16-17	<a href="#">M410.8</a>	300°	2.6	0.12
4.0	1.5	Sm26/16-17	<a href="#">M411.8</a>	300°	2.6	0.16
4.0	3.0	Sm26/16-17	<a href="#">M419.8</a>	300°	5.1	0.32
5.0	1.5	Sm26/16-17	<a href="#">M408.8</a>	300°	3.0	0.25
5.0	2.0	Sm26/16-17	<a href="#">M412.8</a>	300°	4.5	0.33
5.0	3.0	Sm26/16-17	<a href="#">M413.8</a>	300°	6.8	0.49
5.0	9.0	Sm26/16-17	<a href="#">M409.8</a>	300°	10.6	1.48
5.45	4.0	Sm26/16-17	<a href="#">M401.8</a>	300°	9.3	0.78
6.0	2.0	Sm26/16-17	<a href="#">M426.8</a>	300°	5.1	0.48
6.0	3.0	Sm26/16-17	<a href="#">M427.8</a>	300°	8.3	0.71
7.0	3.0	Sm26/16-17	<a href="#">M414.8</a>	300°	9.5	0.97
8.0	5.0	Sm26/16-17	<a href="#">M402.8</a>	300°	17.9	2.11
10.0	2.0	Sm26/16-17	<a href="#">M407.8</a>	300°	6.3	1.32
10.0	3.0	Sm26/16-17	<a href="#">M415.8</a>	300°	12.1	0.98
10.0	4.0	Sm26/16-17	<a href="#">M403.8</a>	300°	17.8	2.64
10.0	5.0	Sm26/16-17	<a href="#">M416.8</a>	300°	22.9	3.30
12.0	3.0	Sm26/16-17	<a href="#">M428.8</a>	300°	13.1	2.85
13.8	3.0	Sm26/16-17	<a href="#">M404.8</a>	300°	13.8	3.77
15.0	5.0	Sm26/16-17	<a href="#">M417.8</a>	300°	31.8	7.42
18.0	4.0	Sm26/16-17	<a href="#">M429.8</a>	300°	24.4	8.55
20.0	4.0	Sm26/16-17	<a href="#">M405.8</a>	300°	25.4	10.56
20.0	5.0	Sm26/16-17	<a href="#">M418.8</a>	300°	36.5	13.19
24.0	4.0	Sm26/16-17	<a href="#">M406.8</a>	300°	26.5	15.20



Your enquiry\*

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Size / shape / material / magnetization / SmCo5 / after drawing...

Technical informations

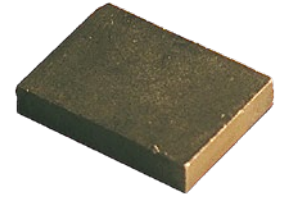
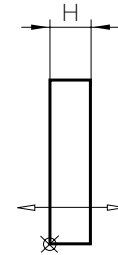
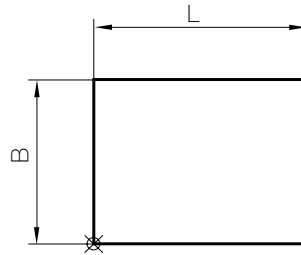


## Parallelepiped Magnets


Materials: **Sm<sub>2</sub>Co<sub>17</sub>/Samarium Cobalt**

\*calculated values (10 N = ~1kg)

Execution: ground pole surface,  
magnetised through thickness



M477.8

Dimensions ±0.1mm			Materials	Stock no. 	Temperature max. C	*Lift N	Weight g
L	B	H					
2.0	2.0	1.0	Sm26/16-17	<b>M470.8</b>	300°	1.0	0.03
3.0	2.0	1.0	Sm26/16-17	<b>M430.8</b>	300°	1.3	0.05
3.0	3.0	2.0	Sm26/16-17	<b>M432.8</b>	300°	3.1	0.15
4.0	4.0	2.0	Sm26/16-17	<b>M473.8</b>	300°	4.1	0.27
5.0	4.5	1.5	Sm26/16-17	<b>M472.8</b>	300°	3.2	0.28
5.0	5.0	3.0	Sm26/16-17	<b>M482.8</b>	300°	7.8	0.63
6.0	3.0	1.0	Sm26/16-17	<b>M471.8</b>	300°	1.9	0.15
6.0	3.0	2.0	Sm26/16-17	<b>M424.8</b>	300°	4.7	0.30
10.0	6.0	5.0	Sm26/16-17	<b>M431.8</b>	300°	20.4	2.52
10.0	7.0	2.0	Sm26/16-17	<b>M474.8</b>	300°	6.7	1.18
10.0	10.0	3.0	Sm26/16-17	<b>M475.8</b>	300°	13.1	2.52
12.0	9.0	2.5	Sm26/16-17	<b>M476.8</b>	300°	10.2	2.27
16.0	12.0	3.0	Sm26/16-17	<b>M477.8</b>	300°	15.2	4.84
18.0	16.0	4.0	Sm26/16-17	<b>M478.8</b>	300°	25.6	9.68
20.0	10.0	4.8	Sm20/18-5	<b>M452214</b>	250°	24.0	8.00
25.0	23.8	8.5	Sm28/25-17	<b>M412801</b>	300°	99.0	41.10
26.0	21.0	5.0	Sm26/16-17	<b>M479.8</b>	300°	41.5	22.93
30.0	10.0	6.0	Sm26/16-17	<b>M480.8</b>	300°	61.8	15.12
30.0	24.8	4.5	Sm28/25-17	<b>M412802</b>	300°	36.0	28.10
30.0	24.8	6.0	Sm28/25-17	<b>M412803</b>	300°	61.0	37.50
32.0	27.0	6.0	Sm26/16-17	<b>M481.8</b>	300°	60.4	43.55
40.0	17.5	8.5	Sm28/25-17	<b>M412806</b>	300°	124.0	50.00
50.0	19.8	9.0	Sm28/25-17	<b>M412804</b>	300°	155.0	74.80
75.0	10.0	8.0	Sm28/20-17	<b>M412718</b>	300°	180.0	47.00



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Technical  
informations

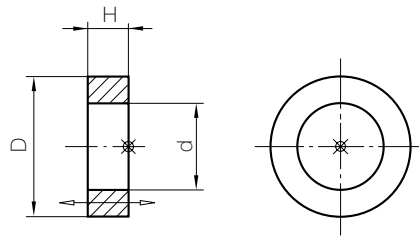


## Ring magnets,


Materials: **Sm<sub>2</sub>Co<sub>17</sub>/Samarium Cobalt**

\*calculated values (10 N = ~1kg)

Execution: raw, height ground, magnetised on-axis



M421.8

Dimensions ±0.1mm			Materials	Stock no.	Temperature max. C	*Lift N	Weight g
D	d	H					
11.0	6.8	3.2	Sm26/16-17	 <b>M420.8</b>	300°	22.1	1.6
19.5	5.4	3.0	Sm26/16-17	<b>M421.8</b>	300°	33.6	6.9
28.0	10.3	12.0	Sm26/16-17	<b>M423.8</b>	300°	195.1	53.7



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\*Your enquiry  
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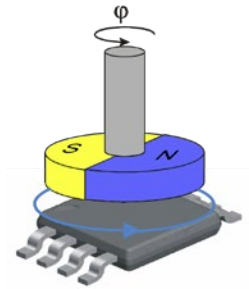
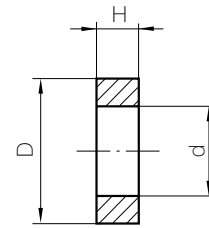
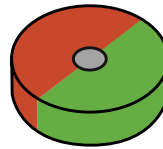
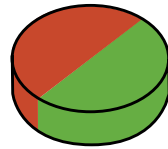
Technical  
informations




## Diametrically magnetized magnets for contactless rotary angle applications

(for products of Melexis Triaxis series and MPS MagAlpha)

Execution in NdFeB, black epoxy coated  
Execution in SmCo, uncoated, raw  
All magnets are diametrically magnetized.



Dimensions ±0.05mm			Material	Stock no. 	Temperatur max. C	Weight g	Coating
D	d	H					
4.0	–	3.0	N35	<b>M610403</b>	80	0.28	epoxy
4.0	–	3.0	Sm26/16-17	<b>M410403</b>	300	0.32	raw
5.0	–	2.5	N35	<b>M610502</b>	80	0.36	epoxy
5.0	–	2.5	Sm26/16-17	<b>M410502</b>	300	0.41	raw
5.0	1.25	2.5	N35	<b>M610512</b>	80	0.34	epoxy
5.0	1.25	2.5	Sm26/16-17	<b>M410512</b>	300	0.39	raw
6.0	–	2.5	N35	<b>M610602</b>	80	0.52	epoxy
6.0	–	2.5	Sm26/16-17	<b>M410602</b>	300	0.59	raw
6.0	1.5	2.5	N35	<b>M610612</b>	80	0.49	epoxy
6.0	1.5	2.5	Sm26/16-17	<b>M410612</b>	300	0.56	raw
6.0	1.5	3.0	N35	<b>M610613</b>	80	0.59	epoxy
6.0	1.5	3.0	Sm26/16-17	<b>M410613</b>	300	0.67	raw
8.0	–	2.5	N35	<b>M610802</b>	80	0.93	epoxy
8.0	–	2.5	Sm26/16-17	<b>M410802</b>	300	1.06	raw
10.0	7.0	3.0	N42 1)	<b>M643003</b>	80	25.20	NiCuNi

Other dimensions, material quality and versions on request.

1) diametral magnetized



 Your enquiry\*

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