

Magnetic Characteristics

Bonded NdFeB

Material	Grade	Br		Hcb		Hcj		(BH)max		Density	α_{Br}	Tw	Tc
		kGs	T	kOe	kA/m	kOe	kA/m	MGOe	kJ/m ³	g/cm ³	%/°C	°C	°C
Compression Type	NEOM-8	5.5-6.3	550-630	4.2-5.4	336-432	7.4-10.2	592-816	6.6-8.7	53-70	5.8-6.2	-0.12		
	NEOM-8H	6.0-6.5	600-650	5.0-6.0	400-480	11.0-14.0	875-1115	7.5-8.5	60-68	5.8-6.1	-0.13		
	NEOM-10	6.2-7.0	620-700	4.5-5.7	360-456	8.0-10.8	640-864	8.0-10.0	64-80	5.8-6.2	-0.10		
	NEOM-12	6.95-7.6	695-760	5.3-5.9	424-472	8.0-10.8	510-640	10.0-12.0	64-96	5.9-6.3	-0.10		
	NEOM-12L	7.0-7.4	700-740	4.5-5.6	360-450	6.4-8.0	640-800	9.4-10.4	74-83	5.9-6.3	-0.10		
Injection Molded	NEOLET-6	5.2-6.2	520-620	3.8-4.6	300-370	8.0-10.0	640-800	5.0-7.0	40-56	5.2-5.4	-0.10		
	NEOLET-8	6.0-6.6	600-660	4.5-5.1	360-408	8.0-10.0	640-800	7.5-8.5	60-68	5.6-5.8	-0.10		
Extrusion Type	NEODEX-8	6.0-6.6	600-660	4.5-5.1	360-408	8.0-10.0	640-800	7.5-8.5	60-68	5.6-5.8	-0.10		
	NEODEX-10	6.2-7.0	620-700	4.5-5.7	360-456	8.0-10.8	640-864	8.0-10.0	64-80	5.9-6.1	-0.10		
Pellet w/ nylon	NEOPELLET-6	5.4-6.4	540-640	4.3-5.1	345-405	8.0-10.0	640-800	5.9-7.9	47-63	5.2-5.4	-0.10		
	NEOPELLET-8	6.1-6.7	610-670	4.5-5.3	360-420	8.0-10.0	640-800	6.9-8.9	55-71	5.6-5.8	-0.10		

Physical & Mechanical Properties

Bonded NdFeB

Material	Grade	Thermal expansion		Young's Modulus	Electric resistivity	Shearing Strength by punching	
		Hardness	Tensile Strength				Coefficient
		HV	Mpa	10 ⁻⁵ /°C	Mpa	Ω·m	N/mm ²
	NEOM	80-120	-	12.40	2.9x10 ⁴	0.026	50
		HRB	Mpa	10 ⁻⁵ /°C	Mpa	Ω·m	N/mm ²
	NEOLET-6	90-130	57.00	4.28	3.56x10 ⁴	0.017	80
	NEODEX-8	100-150	41.00	4.14	3.56x10 ⁴	0.020	80

- Notes:
1. The magnetic characteristics list above is for engineering reference. Special requirement for magnetic properties could be met upon request. Please consult in our engineering team for detail.
 2. All NEOM (Compression molded) products will be epoxy coated.

Corrosion Resistance

(H) hours	24	100	200	300
Appearance	◎	◎	◎	◎

Condition: 60°CX95% RH

Coating Layer Thickness 10~30μm

Soaking Test---NEOM-10 under 25°CX100 hrs

Solvent	Weight	Size	Flux Density	Appearance
D.I Water	±0.5%	±0.5%	±0.5%	◎
City Water	±0.5%	±0.5%	±0.5%	◎
NaCl Solvent	±0.5%	±0.5%	±0.5%	△
NaOH	±0.5%	±0.5%	±0.5%	○
HNO3 6.3%	±0.5%	±0.5%-±2.5%	±0.5%-±2.5%	×
Ethylalcohol	±0.5%	±0.5%	±0.5%	◎
Acetone	±0.5%	±0.5%	±0.5%	◎
Trichloroethane	±0.5%	±0.5%	±0.5%	◎
Machine Oil 56#	±0.5%	±0.5%	±0.5%	◎
Gasoline	±0.5%	±0.5%	±0.5%	◎
Neutral Cleanser	±0.5%-±2.5%	±0.5%	±0.5%	◎

LEGEND

- ◎ No rust by microscope
- No rust by visual inspect
- △ Little rust by visual inspect
- × Much rust by visual inspect
- ※ NaCl 10%: ◎ No rust after 30 hours
- ☆ Coating material selected upon customer's specification