

## Magnetic Properties of Compression Bonded NdFeB Magnet

Material Grade			BNC-4	BNC-6	BNC-8L	BNC-8	BNC-8SR	BNC-8A	BNC-8H	BNC-9	BNC-9H	BNC-10	BNC-11	BNC-11L	BNC-12	BNC-12L
Used MQ Powder			MQP-13-9R1	MQP-13-9R1	MQP-13-9R1	MQP-13-9R1	MQP-O	MQP-D	MQP-C	MQP-B2 & MQP-13-9R1	MQP-14-12	MQP-B2	MQP-B+	MQP-15-7	MQP-C & MQP-16-7	MQP-16-7
Remanence		kGs	5.2-5.6	5.5-6.2	6.0-6.4	6.2-6.9	6.2-6.6	6.0-6.5	6.1-6.5	6.5-7.0	6.5-7.0	6.8-7.2	7.0-7.4	7.0-7.4	7.2-7.7	7.3-8.0
		mT	520-560	550-620	600-640	620-690	620-660	600-650	610-650	650-700	650-700	680-720	700-740	700-740	720-770	730-800
Coercive Force	Hc	kOe	2.5-3.5	3.6-4.6	4.5-5.0	4.8-5.6	5.2-5.8	5.0-5.6	5.2-5.7	5.0-5.5	5.4-6.1	5.3-5.9	5.6-6.0	5.0-5.5	5.5-6.5	5.0-6.0
		kA/m	200-280	285-365	360-400	380-445	415-460	400-445	415-455	400-440	430-485	420-470	445-480	400-440	440-520	400-480
	Hcj	kOe	6.3-8.0	7.5-9.0	9.0-10.0	8.0-10.0	11.0-14.0	14.5-16.5	15.0-18.0	8.0-10.0	11.0-13.0	8.0-10.0	8.5-10.0	6.5-8.0	9.0-11.0	7.0-8.0
		kA/m	500-630	600-720	720-795	630-795	875-1110	1150-1310	1190-1430	630-795	875-1030	630-795	675-795	515-630	720-875	560-630
Max. Energy Product	(BH)max	MGOe	3.5-4.5	5.5-7.0	7.0-8.0	8.0-9.0	8.0-9.0	8.0-9.0	8.0-9.0	8.8-9.5	9.0-10.0	9.5-10.5	10.0-11.0	9.8-10.5	11.0-12.0	11.0-12.0
		kJ/m <sup>3</sup>	28-36	44-56	56-64	64-72	64-72	64-72	64-72	64-72	70.4-76	72-80	76-84	80-88	78.4-84	88-96
Saturation Magnetizing Force	Hs	kOe	>16	>20	>20	>20	>20	>25	>25	>20	>20	>20	>20	>20	>20	>16
		kA/m	>1280	>1600	>1600	>1600	>1600	>2000	>2000	>1600	>1600	>1600	>1600	>1600	>1600	>1600
Rever. Temp. Coeff.	α(Br)	%/°C	-0.12	-0.12	-0.12	-0.12	-0.13	-0.08	-0.07	-0.11	-0.13	-0.11	-0.11	-0.11	-0.09	-0.08
Max. Working Temp.	Tw	°C	<160	<160	<160	<160	<180	<160	<160	<160	<180	<160	<160	<130	<160	<130
Curie Temp.	Tc	°C	300	300	300	300	300	350	350	330	300	330	350	320	350	350

Remark: 1. All the data listed in the table are measured as per standard IEC60404-5:1995

2. The information on used MQ powder are for reference only. We keep right of changing powder type with updated one