ISOTROPIC COMPRESSION MOLDING NdFeb (ICBN)

Compound isotropo di NdFeB e resina epossidica stampato per compressione. Ottima resistenza alla corrosione, facilità di montaggio e possibilità di magnetizzazione in configurazione Halbach

Typical magnetic properties

Grade	Residual Induction (Br)		Coercitivity (minimum values) (bHC)		Intrinsic Coercitivity (minimum values) (jHC)		Max Energy Product (BH)max		Temperature Coefficient Δ % / · °C⁻¹		Max Operating Temperature
	KGs	mT	KOe	KA/m	KOe	KA/m	MGOe	KJ/m3	Br	jHC	°C
ICBN-2	3.0 - 4.0	300 - 400	3.0 - 4.0	240 - 320	6.0 - 8.0	480 - 640	3.0 - 4.0	24 - 32	0.11	0.40	160
ICBN-4	4.0 - 5.0	400 - 500	3.0 - 4.0	240 - 320	7.0 - 9.0	560 - 720	4.0 - 6.0	32 - 48	0.11	0.40	
ICBN-6	5.0 - 6.0	500 - 600	4.0 - 5.0	320 - 400	7.0 - 9.0	560 - 720	6.0 - 7.5	48 - 60	0.11	0.40	
ICBN-8	6.0 - 8.0	600 - 800	4.5 - 5.5	360 - 440	8.0 - 10.0	640 - 800	7.5 - 9.0	60 - 72	0.11	0.40	
ICBN-8L	6.0 - 8.0	600 - 800	5.0 - 6.0	400 - 480	8.0 - 10.0	640 - 800	8.0 - 9.0	64 - 72	0.11	0.40	
ICBN-8H	6.0 - 6.6	600 - 660	5.0 - 6.0	400 - 480	13.0 - 17.0	1040 - 1360	8.0 - 9.0	64 - 72	0.10	0.38	180
ICBN-8SR	6.2 - 6.8	620 - 680	5.0 - 6.0	400 - 480	10.0 - 14.0	800 - 1120	8.5 - 9.5	68 - 76	0.10	0.39	
ICBN-10	6.8 - 7.3	680 - 730	5.0 - 6.0	400 - 480	8.0 - 10.0	640 - 800	9.5 - 10.5	76 - 84	0.10	0.40	160
ICBN-10H	7.0 - 7.5	700 - 750	5.5 - 6.5	440 - 520	8.0 - 10.0	640 - 800	10.0 -11.0	80 - 88	0.10	0.40	
ICBN-12	7.2 - 7.7	720 - 770	5.5 - 6.5	440 - 520	9.0 - 10.0	720 - 800	11.0 - 12.0	88 - 96	0.10	0.40	
ICBN-12D	7.2 - 7.7	720 - 770	5.5 - 6.5	440 - 520	9.0 - 10.0	720 - 800	11.0 - 12.0	88 - 96	0.10	0.40	
ICBN-12H	7.4 - 8.0	740 - 800	5.5 - 6.5	440 - 520	9.5 - 10.0	760 - 800	11.0 - 12.0	88 - 96	0.10	0.40	
ICBN-12L	7.6 - 8.1	760 - 810	5.0 - 6.0	400 - 480	6.0 - 8.0	480 - 640	11.0 - 12.0	88 - 96	0.12	0.40	150
1CBN-13L	7.8 - 8.3	780 - 830	5.0 - 6.0	400 - 480	6.0 - 8.0	480 - 640	11.0 - 13.0	88 - 104	0.12	0.40	

Note: The above properties are subject to change without notice. For details about irrebversible losses with temperature changes pls contact us.

Other typical properties

Curie Temperature	Density	Recoil Permeability	Minimum saturation field
°C	g/cm3	1.13 - 1.2	KA/m > 1600
300 < 350	5 < 6.4		KOe > 20

Bending Strenght	Coefficient of thermal expansion	Flexural Strenght	Electric resistivity
Mpa	10 x 10-6 °C (30 - 100°C)	Mpa	Ohm/m
290		52	56 x 10-6

Compression Strenght	Tensil Strenght	Young's Module	Vickers Hardness
Mpa	Mpa	Mpa	HV
80 - 100	80	10800	35 - 38

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