



## Magneti in alnico



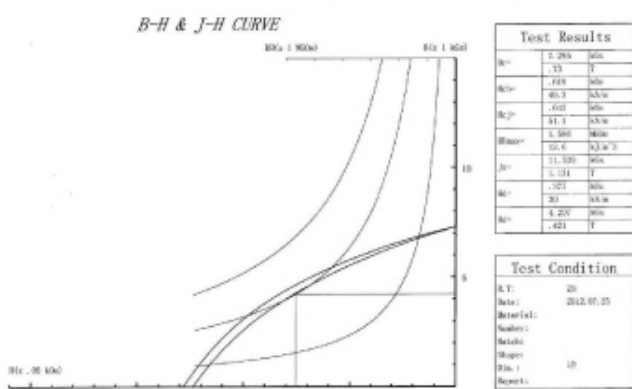
### ALNIKO MAG

I magneti in Alnico sono composti principalmente da Alluminio, Nickel, Cobalto, Rame e Metallo. Ha una buona resistenza alla corrosione e alle alte temperature. Anche se altri materiali offrono maggiore energia e forza coercitiva, la stabilità termica dell'Alnico lo rendono il materiale più conveniente per alcune applicazioni come generatori e strumenti di misura. L'Alnico è ampiamente applicato in settori ad alta stabilità come aerospaziale, militare, automobile, e nei sistemi di sicurezza.

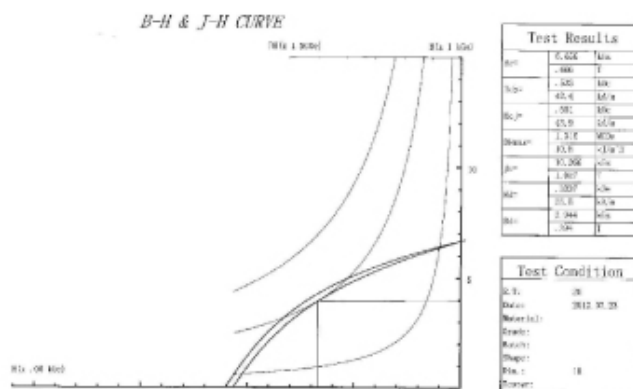
### PHYSICAL PROPERTIES OF CAST ALNIKO

CURIE TEMPERATURE (C°)	760-890
MAX OPERATING TEMPERATURE (C°)	450-550
RESISTIVITY (M OHM.CM)	47-54
HARDNESS (HV)	520-630
DENSITY (G/CM3)	6.90-7.30
RELATIVE RECOIL PERMEABILITY (MREC)	1.70-4.70
SAATURATION FIELD STREIGHT (KOE, KA/M)	2.7-6.3 / 215-500
TEMPERATURE COEFFICIENT OF BR (%/°C)	- 0.025 / -0.02
TEMPERATURE COEFFICIENT OF IHC (%/°C)	+0.01 / +0.03

### TYPICAL DEMAGNETIZING CURVES OF CAST ALNIKO:



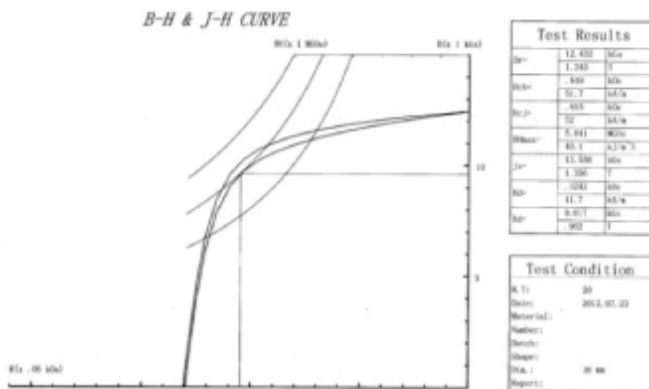
ALNIKOmg - ALNIKO 2



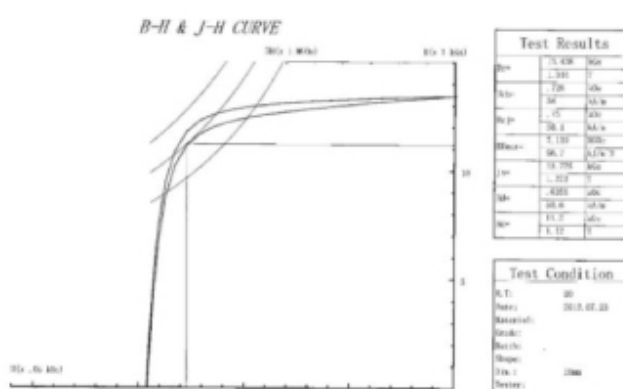
ALNIKOmg - ALNIKO 3



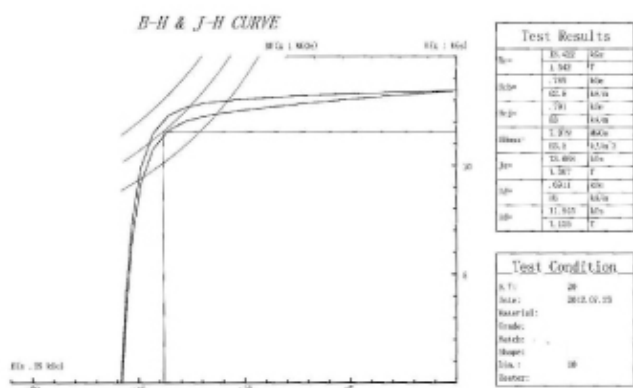
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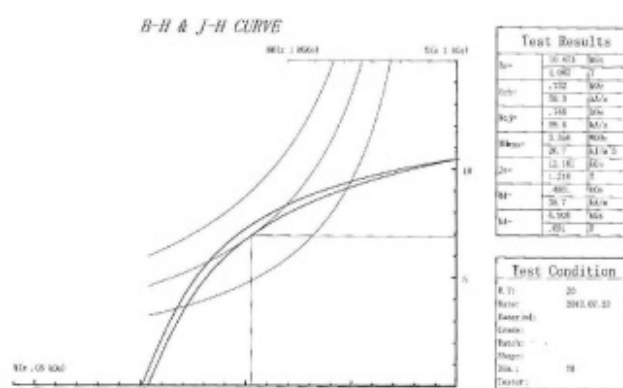
ALNIKOmg - ALNIKO 5



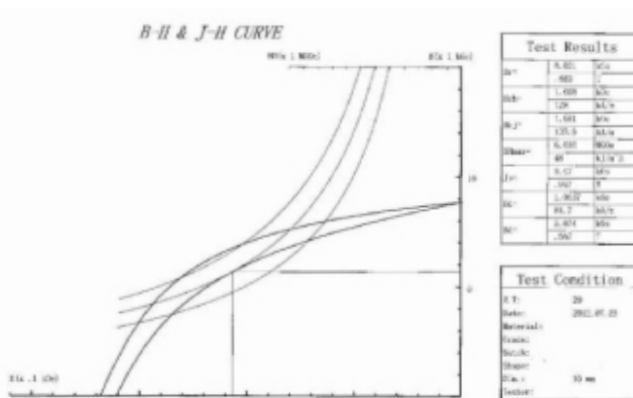
ALNIKOmg - ALNIKO 5DG



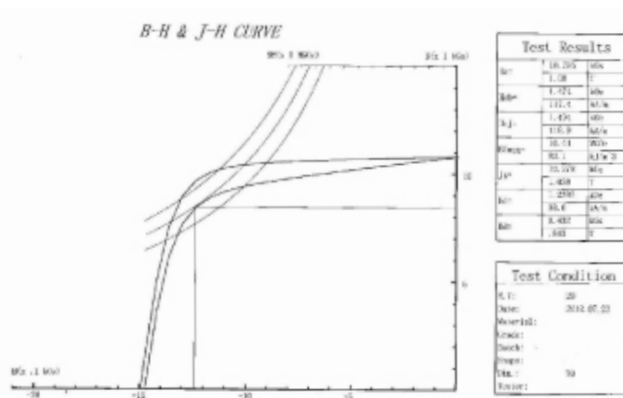
ALNIKOmg - ALNIKO 5-7



ALNIKOmg - ALNIKO 6



ALNIKOmg - ALNIKO 8



ALNIKOmg - ALNIKO 9



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GRADE	Br		Hcb		(BH)max		Tc.	Tw.	aBr	MMPA Equivalent	IEC Equivalent
	mT	Gs	KA/m	Oe	Kj/m3	MGOe	°C	°C	%/°C		
	<b>AM-9</b>	690	6900	37	470	9.0	1.13	760	450		
<b>AM-10</b>	600	6000	40	500	10.0	1.25	760	450	-0.03	Alnico 10/4	
<b>AM-12</b>	720	7200	44	550	12.0	1.50	810	450	-0.03	Alnico 2	Alnico 12/5
<b>AM-13</b>	700	7000	48	600	13.0	1.63	810	450	-0.03		Alnico 13/5
<b>AM-16</b>	800	8000	48	600	16.0	2.00	850	525	-0.02	Alnico 4	Alnico 16/5
<b>AM-18</b>	900	9000	48	600	18.0	2.25	850	525	-0.02		Alnico 18/5
<b>AM-34</b>	1180	11800	48	600	34.0	4.25	890	525	-0.02	Alnico 5	Alnico 34/5
<b>AM-37</b>	1200	12000	48	600	37.0	4.65	890	525	-0.02		Alnico 347/5
<b>AM-40</b>	1250	12500	48	600	40.0	5.00	890	525	-0.02		Alnico 40/5
<b>AM-44</b>	1250	12500	52	650	44.0	5.50	890	525	-0.02		Alnico 44/5
<b>AM-48</b>	1250	12500	52	650	48.0	6.00	890	525	-0.02	Alnico 5DG	Alnico 48/5
<b>AM-52</b>	1300	1300	56	700	52.0	6.50	890	525	-0.02		Alnico 52/6
<b>AM-60</b>	1350	13500	56	700	60.0	7.50	890	525	-0.02	Alnico 5-7	Alnico 60/6
<b>AM-T28</b>	1050	10500	56	700	28.0	7.50	860	525	-0.02	Alnico 6	Alnico 26/6
<b>AM-T18</b>	580	5800	90	1130	18.0	3.50	860	550	-0.03	Alnico 7	Alnico 17/9
<b>AM-T34</b>	800	8000	104	1300	34.0	2.20	860	550	-0.03	Alnico 8	Alnico 34/10
<b>AM-T38</b>	820	8200	110	1380	38.0	4.25	860	550	-0.03		Alnico 38/11
<b>AM-T40</b>	850	8500	120	1500	40.0	4.75	860	550	-0.03		Alnico 40/12
<b>AM-T44</b>	880	8800	120	1500	44.0	5.00	860	550	-0.03		Alnico 44/12
<b>AM-T48</b>	900	9000	120	1500	48.0	5.50	860	550	-0.03		Alnico 48/12
<b>AM-T60</b>	900	9000	110	1380	60.0	6.00	860	550	-0.03		Alnico 60/11
<b>AM-T72</b>	1050	10500	112	1410	72.0	7.50	860	550	-0.03		Alnico 72/11
<b>AM-T82</b>	1100	11000	120	1500	82.00	9.00	860	550	-0.03	Alnico 9	Alnico 82/12
<b>AM-T88</b>	1100	11000	120	1500	88.0		860	550	-0.03		Alnico 88/12
<b>AM-T92</b>	1120	11200	120	1500	92.0	11.50	860	550	-0.03		Alnico 92/12