



ISOTROPIC (ICA) AND ANISOTROPIC (ACA) CAST ALNICO

Grande stabilità termica, eccellente resistenza alla corrosione ed elevatissima temperatura di funzionamento. Il campo coercitivo limitato obbliga ad una magnetizzazione dopo l'assemblaggio

Typical magnetic properties

Grade	Residual Induction (Br)		Coercivity (minimum values) (bHC)		Max Energy Product (BH)max		Temperature Coefficient Δ % / °C ⁻¹	Equivalent to		Curie Temperature	Max Operating Temperature
	Gauss	mT	Oe	KA/m	MGOe	KJ/m3	Br	IEC	MMPA	°C	°C
ICA-9	6900	690	470	37	1.13	9.0	0.03	Alnico 9/4	Alnico 3	760	450
ICA-10	6000	600	500	40	1.25	10.0	0.03	Alnico 10/4			
ICA-12	7200	720	550	44	1.50	12.0	0.03	Alnico 12/5			
ICA-13	7000	700	600	48	1.63	13.0	0.03	Alnico 13/5	Alnico 2	810	550
ICA-18	5800	580	1130	90	2.20	18.0	0.02	Alnico 17/9	Alnico 7	860	
ACA-16	8000	800	600	48	2.00	16.0	0.02	Alnico 15/5	Alnico 4	850	525
ACA-18	9000	900	600	48	2.25	18.0	0.02	Alnico 18/5			
ACA-34	11800	1180	600	48	4.25	34.0	0.02	Alnico 34/5	Alnico 5	890	525
ACA-37	12000	1200	600	48	4.65	37.0	0.02	Alnico 37/5			
ACA-40	12500	1250	600	48	5.00	40.0	0.02	Alnico 40/5			
ACA-44	12500	1250	650	52	5.50	44.0	0.02	Alnico 44/5	Alnico 5 GD	860	550
ACA-48	12500	1250	650	52	6.00	48.0	0.02	Alnico 48/5			
ACA-52	13000	1300	700	56	6.50	52.0	0.02	Alnico 52/6	Alnico 5-7	860	550
ACA-60	13500	1350	700	56	7.50	60.0	0.02	Alnico 60/6	Alnico 6		
ACA-28	10500	1050	700	56	3.50	28.0	0.02	Alnico 26/6	Alnico 8	860	550
ACA-34	8000	800	1300	104	4.25	34.0	0.03	Alnico 34/10			
ACA-38	8200	820	1380	110	4.75	38.0	0.03	Alnico 38/11			
ACA-40	8500	850	1500	120	5.00	40.0	0.03	Alnico 40/12	Alnico 9	860	550
ACA-44	8800	880	1500	120	5.5	44	0.03	Alnico 44/12			
ACA-48	9000	900	1500	120	6.00	48	0.03	Alnico 48/12	Alnico 9	860	550
ACA-60	9000	900	1380	110	7.5	60	0.03	Alnico 60/11			
ACA-72	10500	1050	1410	112	9.0	72	0.03	Alnico 72/11			
ACA-82	11000	1100	1500	120	10.25	82	0.03	Alnico 82/12	Alnico 9	860	550
ACA-88	11000	1100	1500	120	11.00	88	0.03	Alnico 88/12			
ACA-92	11200	1120	1500	120	11.50	92	0.03	Alnico 92/12	Alnico 9	860	550

Note: The above properties are subject to change without notice.

Other typical properties

Bending Strength	Specific heat	Recoil Permeability	Minimum saturation field
Mpa	J/KJ °C	//	KA/m > 530
50 < 310	//		KOe > 6.7
Density	Coefficient of thermal expansion	Thermal conductivity	Electric resistivity
g/cm3		W/m °C	Ohm/m
6.9 < 7.3	11 < 13 x 10 ⁻⁶ °C	//	0.45 x 10 ⁻⁶
Compression Strength	Tensile Strength	Young's Module	Vickers Hardness
Mpa	Mpa	Mpa	HV
300	50 < 190	//	440 < 620
Flexural Strength			
Mpa			
//			

Note: The above properties are measured on samples, they are subject to change without notice.