



ISOTROPIC (ISA) AND ANISOTROPIC (ASA) SINTERED ALNICO

Grande stabilità termica ed elevatissima resistenza alla corrosione sono le peculiarità di queste leghe, particolarmente apprezzate in applicazioni di misura

Typical magnetic properties

Grade	Residual Induction (Br)		Coercivity (minimum values) (bHC)		Max Energy Product (BH)max		Temperature Coefficient Δ	Curie Temperature	Density	
	Gauss	mT	Oe	KA/m	MGOe	KJ/m3	% / °C ⁻¹	°C	g/cm3	
ISOTROPIC	ISA 4/1	6900	690	470	37	1.13	9.0	0.02	750	6.8
	ISA 8/5	6000	600	500	40	1.25	10.0	0.02		
	ISA 10/5	7200	720	550	44	1.50	12.0	0.02		
	ISA 12/5	7000	700	600	48	1.63	13.0	0.02	800	7.0
	ISA 14/5	5800	580	1130	90	2.20	18.0	0.02	790	7.1
	ISA 14/6	8000	800	600	48	2.00	16.0	0.02		
	ISA 14/8	9000	900	600	48	2.25	18.0	0.01	850	
	ISA 18/10	11800	1180	600	48	4.25	34.0	0.01		
	ISA 29/6	12000	1200	600	48	4.65	37.0	0.02	860	7.2
	ISA 30/6	12500	1250	600	48	5.00	40.0	0.02		
	ISA 42/10	12500	1250	650	52	5.50	44.0	0.01		
	ISA 33/11	12500	1250	650	52	6.00	48.0	0.01		
ISA 35/5	13000	1300	700	56	6.50	52.0	0.02	850		
ANISOTROPIC	ASA 37/15	13500	1350	700	56	7.50	60.0	0.01	870	
	ASA 39/12	10500	1050	700	56	3.50	28.0	0.01	860	7.25
	ASA 44/12	8000	800	1300	104	4.25	34.0	0.01		
	ASA 40/15	8200	820	1380	110	4.75	38.0	0.01	870	7.2
	ASA 44/15	8500	850	1500	120	5.00	40.0	0.01		

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	1.7 < 4.2	KA/m > 530
50 < 310	//		KOe > 6.7
Working Temperature	Coefficient of thermal expansion	Thermal conductivity	Electric resistivity
°C	11 x 10 ⁻⁶ °C	W/m °C	Ohm/m
410 < 500		//	0.45 x 10 ⁻⁶
Compression Strength	Tensile Strength	Young's Module	Vickers Hardness
Mpa	Mpa	Mpa	HV
300	170 < 190	//	650
Flexural Strength			
Mpa			
//			

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