Always ahead.

AlNiCo

version June 2015

Cast AlNiCo

Grade	Remanence Br		Normal coercivity Hcb		Energy density (BH)max		Density	Reversible temp. coefficient		Curie temp.	Working temp.	Remark
	mT	Gs	KA/m	Oe	KJ/m3	MGOe	g/cm3	Near Br	Near Hcj	°C	°C	
LN9	680	6800	30	380	9	1	6,9	-0,03	-0,02	810	450	isotropic
LN10	600	6000	40	500	10	1	6,9	-0,03	-0,02	810	450	
LN12	720	7200	45	500	12	2	7,0	-0,03	-0,02	810	450	
LN13	700	7000	48	600	13	2	7,0	-0,03	-0,02	810	450	
LNGT18	580	5800	100	1250	18	2	7,3	-0,025	+0.02	860	550	
LN37	1200	12000	48	600	37	5	7,3	-0,02	+0.02	860	525	anisotropic
LNG40	1250	12500	48	600	40	5	7,3	-0,02	+0.02	860	525	
LNG44	1250	12500	52	650	44	6	7,3	-0,02	+0.02	860	525	
LNG52	1300	13000	56	700	52	7	7,3	-0,02	+0.02	860	525	
LNG60	1350	13500	59	740	60	8	7,3	-0,02	+0.02	860	525	
LNGT28	1000	10000	58	720	28	4	7,3	-0,025	+0.03	860	525	
LNGT36J	700	7000	140	1750	36	5	7,3	-0,025	+0.02	860	550	
LNGT38	800	8000	110	1380	38	5	7,3	-0,025	+0.02	860	550	
LNGT40	800	8000	110	1380	40	5	7,3	-0,025	+0.02	860	550	
LNG60	900	9000	110	1380	60	8	7,3	-0,025	+0.02	860	550	
LNGT72	1050	10500	112	1400	72	9	7,3	-0,025	+0.02	860	550	

Sintered AlNiCo

Grade	Remanence Br		Normal coercivity Hcb		Energy density (BH)max		Density	Reversible temp. coefficient		Curie temp.	Working temp.	Remark
	mT	Gs	KA/m	Oe	KJ/m3	MGOe	g/cm3	Near Br	Near Hcj	°C	°C	
FLN8	520	5200	43	540	40	500	8-10	1.0-1.25	6,8	-0,022	760	isotropic
FLNG12	700	7000	43	540	40	500	12-14	1.5-1.75	7,0	-0,014	810	
FLNGT14	570	5700	78	980	76	950	14-16	1.75-2.0	7,1	-0,020	850	
FLNGT18	560	5600	90	1130	88	1100	18-22	2.25-2.75	7,2	-0,020	850	
FLNG28	1050	10500	47	590	46	580	28-33	3.5-4.15	7,2	-0,016	850	anisotropic
FLNG34	1100	11000	51	640	50	630	34-38	4.3-4.8	7,2	-0,016	890	
FLNGT28	1000	10000	57	710	56	700	28-30	3.5-3.8	7,2	-0,020	850	
FLNGT31	780	7800	106	1130	104	1300	33-36	3.9-4.5	7,2	-0,020	850	
FLNG33J	650	6500	150	1880	136	1700	31-36	4.15-4.5	7,2	-0,020	850	
FLNGT38	800	8000	126	1580	123	1550	38-42	4.75-5.3	7,2	-0,020	850	
FLNGT42	880	8800	122	1530	120	1500	42-48	5.3-6.0	7,25	-0,020	850	

Physical properties at room temperature (20°C)			
Temp.Coeff. of Br:	**See above**	Temp.Coeff. of iHc:	
Density:	**7.4-7.6g/cm³**	Electrical resistivity:	50-80 x 10-5Ω cm
Vickers Hardness:	**45-50 Rockwell C**	Flexural Strength:	
Tensile strength:		Coeff. Of Thermal Expansion	
Specific heat:		Thermal Conductivity:	
Young's Modulus:		Rigidity:	
Poisson's Ratio:		Compressibility:	
Curie Temperature:	**810-860°C**		

The maximum operating temperature
see above