



ISOTROPIC (SIF) AND ANISOTROPIC (SAF) SINTERED FERRITE

Ossidi ceramici a base Ferro e bicarbonato di Bario o Stronzio molto apprezzate per le loro buone caratteristiche magnetiche e per il basso costo. Nessuna sensibilità alla corrosione sono ancora oggi fra le leghe più utilizzate in assoluto.

Typical magnetic properties

Grade	Residual Induction (Br)		Coercitivity (minimum values) (bHC)		Intrinsic Coercitivity (minimum values) (jHC)		Max Energy Product (BH)max		Temperature Coefficient $\Delta \% / ^\circ\text{C}^{-1}$		Type
	Gauss	mT	Oe	KA/m	Oe	KA/m	MGOe	KJ/m3	Br	jHC	
SIF8T	2000 - 2350	200 - 235	1570 - 2009	125 - 160	2637 - 3516	210 - 280	0.81 - 1.19	6.5 - 9.5	- 0.18	+ 0.28	ISOTROPIC
SIF10T	2200 - 2400	220 - 235	1610 - 2009	128 - 160	2637 - 3516	210 - 280	0.80 - 1.20	6.4 - 9.6	- 0.18	+ 0.28	
SAF20	3200 - 3800	320 - 380	1700 - 2390	135 - 190	1760 - 2450	140 - 195	2.30 - 2.80	18.0 - 22.0	- 0.18	+ 0.28	
SAF22H	3100 - 3600	310 - 360	2763 - 3140	220 - 250	3516 - 4019	280 - 320	2.51 - 3.02	20.0 - 24.0	- 0.18	+ 0.28	
SAF23	3200 - 3700	320 - 370	2140 - 2390	170 - 190	2390 - 2890	190 - 230	2.5 - 3.2	20.0 - 25.5	- 0.18	+ 0.28	
SAF25	3600 - 4000	360 - 400	1700 - 2140	135 - 170	1760 - 2510	140 - 200	2.8 - 3.5	22.5 - 28.0	- 0.18	+ 0.28	
SAF26H	3600 - 3900	360 - 390	2760 - 3140	220 - 250	2830 - 3200	225 - 255	2.9 - 3.5	23.0 - 28.0	- 0.18	+ 0.28	
SAF26H2	3600 - 3800	360 - 380	3300 - 3620	263 - 288	4000 - 4400	318 - 350	3.0 - 3.5	24.0 - 28.0	- 0.18	+ 0.28	
SAF27H	3700 - 4000	370 - 400	2580 - 3140	205 - 250	2640 - 3200	210 - 255	3.1 - 3.6	25.0 - 29.0	- 0.18	+ 0.28	
SAF28	3700 - 4000	370 - 400	2200 - 2640	175 - 210	2260 - 2760	180 - 220	3.3 - 3.8	26.0 - 30.0	- 0.18	+ 0.28	
SAF28H1	3800 - 4000	380 - 400	3020 - 3270	240 - 250	3140 - 3520	250 - 280	3.4 - 3.8	27.0 - 30.0	- 0.18	+ 0.28	ANISOTROPIC
SAF28H2	3600 - 3800	360 - 380	3410 - 3710	271 - 295	4800 - 5009	382 - 405	3.3 - 3.8	26.0 - 30.0	- 0.18	+ 0.28	
SAF30	3700 - 4000	370 - 380	2200 - 2640	175 - 210	2260 - 2760	180 - 220	3.3 - 3.8	26.0 - 30.0	- 0.18	+ 0.28	
SAF30BH	3800 - 3900	380 - 390	2800 - 2950	223 - 235	2900 - 3080	231 - 245	3.4 - 3.8	27.0 - 30.0	- 0.18	+ 0.28	
SAF30H1	3800 - 4000	380 - 400	2890 - 3460	230 - 275	2950 - 3640	235 - 290	3.4 - 4.0	27.0 - 32.0	- 0.18	+ 0.28	
SAF30H2	3950 - 4150	395 - 415	3460 - 3770	275 - 300	3900 - 4210	310 - 335	3.4 - 4.1	27.0 - 32.5	- 0.18	+ 0.28	
SAF32	4000 - 4200	400 - 420	2010 - 2390	160 - 190	2070 - 2450	165 - 195	3.8 - 4.2	30.0 - 33.5	- 0.18	+ 0.28	
SAF32H1	4000 - 4200	400 - 420	2390 - 2890	190 - 230	2890 - 3140	230 - 250	4.0 - 4.4	31.5 - 35.0	- 0.18	+ 0.28	
SAF32H2	4000 - 4400	400 - 440	2810 - 3020	224 - 240	2890 - 3140	230 - 250	3.9 - 4.3	31.0 - 34.0	- 0.18	+ 0.28	
SAF33	4100 - 4300	410 - 430	2760 - 3140	220 - 250	2830 - 3200	225 - 265	4.0 - 4.4	31.5 - 35.0	- 0.18	+ 0.28	
SAH33H	4100 - 4300	410 - 430	3140 - 3390	250 - 270	3140 - 3460	250 - 275	4.0 - 4.4	31.5 - 35.0	- 0.18	+ 0.28	
SAF34	4200 - 4400	420 - 440	2510 - 2890	200 - 230	2580 - 2950	205 - 235	4.1 - 4.5	32.5 - 36.0	- 0.18	+ 0.28	
SAF35	4300 - 4500	430 - 450	2700 - 3000	215 - 239	2730 - 3030	217 - 241	4.2 - 4.8	33.1 - 38.2	- 0.18	+ 0.28	
SAF36	4300 - 4500	430 - 450	3100 - 3410	247 - 271	3140 - 3440	250 - 274	4.4 - 4.8	35.1 - 38.3	- 0.18	+ 0.28	
SAF38	4400 - 4600	440 - 460	3580 - 3830	285 - 305	3690 - 3900	294 - 310	4.6 - 5.1	36.6 - 40.6	- 0.18	+ 0.28	
SAF40	4400 - 4600	440 - 460	4150 - 4450	330 - 354	4270 - 4520	340 - 360	4.7 - 5.3	37.5 - 41.8	- 0.18	+ 0.28	

Note: The above properties are subject to change without notice. Pls contact us for details

Other typical properties

Curie Temperature	Specific heat	Recoil Permeability	Minimum saturation field
$^\circ\text{C}$	J/KJ $^\circ\text{C}$	1.05 < 1.1	KA/m > 640
460	0.2		KOe > 8
Density	Coefficient of thermal expansion	Thermal conductivity	Electric resistivity
g/cm3	15 x 10 ⁻⁶ $^\circ\text{C}$ direction	W/m $^\circ\text{C}$	Ohm/m
4.85 < 5.05	10 x 10 ⁻⁶ $^\circ\text{C}$ perpendicular direction	//	//
Compression Strenght	Tensil Strenght	Young's Module	Vickers Hardness
N/mm2	N/mm2	N/mm2	HV
> 700	> 50	150	700
Flexural Strenght	Bending Strenght		
N/mm2	N/mm2		
130	//		

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