

I-CER

Injected Ferrite

MATERIAL TYPE

Plastic

SURFACE PROTECTION

Not necessary

ORIENTATION & MAGNETIZATION

Single Pole / Multiple Poles (Halbach
Sinusoidal, Skewed, Trapezoidal, Discrete)

TEMPERATURE BEHAVIOR

Br TEMPERATURE COEFFICIENT	% / °C	-0,2
HcJ TEMPERATURE COEFFICIENT	% / °C	+0,3

*The temperature coefficients are nominal reference values only. They can vary for different temperatures and don't need to be linear.

**The maximum operating temperature is depending on the magnet shape, size and on the specific application.

PHYSICAL AND MECHANICAL TYPICAL PROPERTIES

CURIE TEMPERATURE	°C	450
RELATIVE PERMEABILITY	(μ_r)	1,1 - 1,2
SATURATION FIELD	kOe	> 14
ELECTRICAL RESISTIVITY	Ωm	102
FLEXURAL STRENGTH	N / mm ²	1.700
TENSILE STRENGTH	N / mm ²	38 - 65
IMPACT STRENGTH	N / mm ²	> 20
ROCKWELL HARDNESS	HRC	115
FLEXURAL TEMPERATURE	°C	158
THERMAL CONDUCTIVITY	kcal/m/hr/°C	- 12



Injected Ferrite with Binder PA6

GRADES	Br		HcB		HcJ		BH max		Max. Working Temp.**
	G	T	Oe	kA/m	Oe	kA/m	MGOe	kJ/m³	
I-CER 0806	2.050 - 2.250	0,205 - 0,225	1.900 - 2.100	151 - 167	3.100 - 3.300	246 - 262	1,10 - 1,20	8,7 - 9,6	+150
I-CER 1006	2.100 - 2.300	0,210 - 0,230	2.000 - 2.200	159 - 175	3.000 - 3.400	238 - 270	1,10 - 1,20	8,7 - 9,6	+150
I-CER 1106	2.350 - 2.550	0,235 - 0,255	2.200 - 2.400	175 - 191	3.200 - 3.500	254 - 278	1,40 - 1,60	11,1 - 12,7	+150
I-CER 1206	2.450 - 2.650	0,245 - 0,265	2.300 - 2.500	183 - 199	3.200 - 3.500	254 - 278	1,50 - 1,70	11,9 - 13,5	+150
I-CER 1306	2.550 - 2.750	0,255 - 0,275	2.300 - 2.500	183 - 199	2.900 - 3.400	230 - 270	1,60 - 1,80	12,7 - 14,3	+150
I-CER 1406	2.690 - 2.900	0,269 - 0,290	2.270 - 2.650	180 - 210	2.600 - 3.550	207 - 282	1,75 - 2,00	13,9 - 15,9	+150
I-CER 1506	2.800 - 3.030	0,280 - 0,303	2.330 - 2.700	185 - 214	2.765 - 3.250	220 - 258	1,95 - 2,15	15,5 - 17,1	+150
I-CER 1606	2.850 - 3.050	0,285 - 0,305	2.550 - 2.750	203 - 219	3.000 - 3.400	238 - 270	2,00 - 2,20	15,9 - 17,5	+150
I-CER 1706	2.850 - 3.050	0,285 - 0,305	2.300 - 2.550	183 - 203	2.700 - 3.200	215 - 255	2,00 - 2,20	15,9 - 17,5	+150

Injected Ferrite with Binder PA12

GRADES	Br		HcB		HcJ		BH max		Max. Working Temp.**
	G	T	Oe	kA/m	Oe	kA/m	MGOe	kJ/m³	
I-CER 1312	2.600 - 2.800	0,260 - 0,280	2.400 - 2.600	191 - 207	3.000 - 3.200	238 - 254	1,70 - 1,90	13,5 - 15,1	+120
I-CER 1512	2.770 - 2.970	0,277 - 0,297	2.450 - 2.650	195 - 211	3.150 - 3.350	251 - 267	1,90 - 2,10	15,1 - 16,7	+120
I-CER 1612	2.750 - 3.100	0,275 - 0,310	2.300 - 2.700	183 - 214	2.700 - 3.300	214 - 262	1,90 - 2,25	15,1 - 17,9	+120
I-CER 1812	3.000 - 3.250	0,300 - 0,325	2.500 - 2.700	199 - 214	2.900 - 3.200	230 - 255	2,25 - 2,50	17,9 - 19,9	+120

Injected Ferrite with Binder PPS

GRADES	Br		HcB		HcJ		BH max		Max. Working Temp.**
	G	T	Oe	kA/m	Oe	kA/m	MGOe	kJ/m³	
I-CER 12PPS	2.400 - 2.600	0,240 - 0,260	2.100 - 2.400	167 - 191	2.700 - 3.200	215 - 255	1,40 - 1,60	11,1 - 12,7	+180
I-CER 13PPS	2.550 - 2.750	0,255 - 0,275	2.300 - 2.500	183 - 199	2.900 - 3.300	230 - 262	1,60 - 1,80	12,7 - 14,3	+180