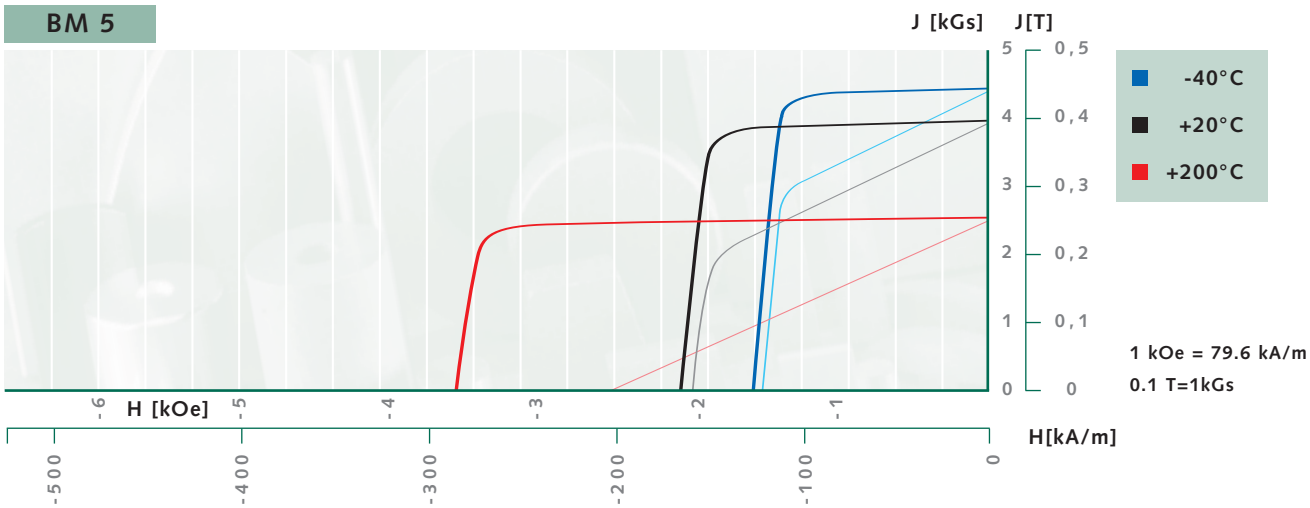
HARD FERRITE MAGNETIC MATERIAL

Name	MAGNETIC PROPERTIES															
	Remanence Br (kG)		Remanence Br (mT)		Normal coercivity -HcB (kOe)		Normal coercivity -HcB (kA/m)		Intrinsic coercivity -HcJ (kOe)		Intrinsic coercivity -HcJ (kA/m)		Max. energy product (B-H)max (MGOe)		Max. energy product (B-H)max (Kj/m³)	
	min	typ	min	typ	min	typ	min	typ	min	typ	min	typ	min	typ	min	typ
BM 1	2.10	2.20	210	220	1.6	1.7	130	135	2.6	2.8	210	220	0.9	0.96	7.2	7.6
BM 3	3.50	3.70	350	370	1.9	2.2	155	175	2.0	2.3	160	180	3.0	3.20	24.0	25.5
BM 5	3.90	4.0	390	400	1.8	2.0	145	160	1.9	2.1	150	165	3.5	3.70	28.0	29.5
BM 7	3.50	3.70	350	370	2.6	3.1	210	245	2.8	3.2	220	255	3.1	3.20	24.5	25.5
BM 8	3.80	3.90	380	390	3.0	3.2	240	255	3.1	3.3	245	260	3.3	3.49	26.0	27.8
BM 9	3.85	3.95	385	395	3.4	3.5	270	280	3.5	3.6	280	290	3.5	3.60	28.0	29.0

HARD FERRITE MAGNETIC MATERIAL

Name	MAGNETIC PROPERTIES								
	Temperature coeff. of Br. %/°C	Temperature coeff. of HcJ. %/°C	Density g/cm³	Relative recoil permeability μ rev	Curie temperature °C	Lin. exp. coeff. 10/°C	Continuous maximum operating temp. °C	Recommended magnetising field kOe	Recommended magnetising field kA/m
BM 1	- 0.2	+ 0.4	4.9	1.05 - 1.3	450	9-15	250	-	-
BM 3	- 0.2	+ 0.4	4.8	1.05 - 1.3	450	9-15	250	> 20	> 800
BM 5	- 0.2	+ 0.4	4.9	1.05 - 1.3	450	9-15	250	> 20	> 800
BM 7	- 0.2	+ 0.4	4.7	1.05 - 1.3	450	9-15	250	> 20	> 800
BM 8	- 0.2	+ 0.4	4.8	1.05 - 1.3	450	9-15	250	> 20	> 800
BM 9	- 0.2	+ 0.4	4.8	1.05 - 1.3	450	9-15	250	> 20	> 800

BM 5

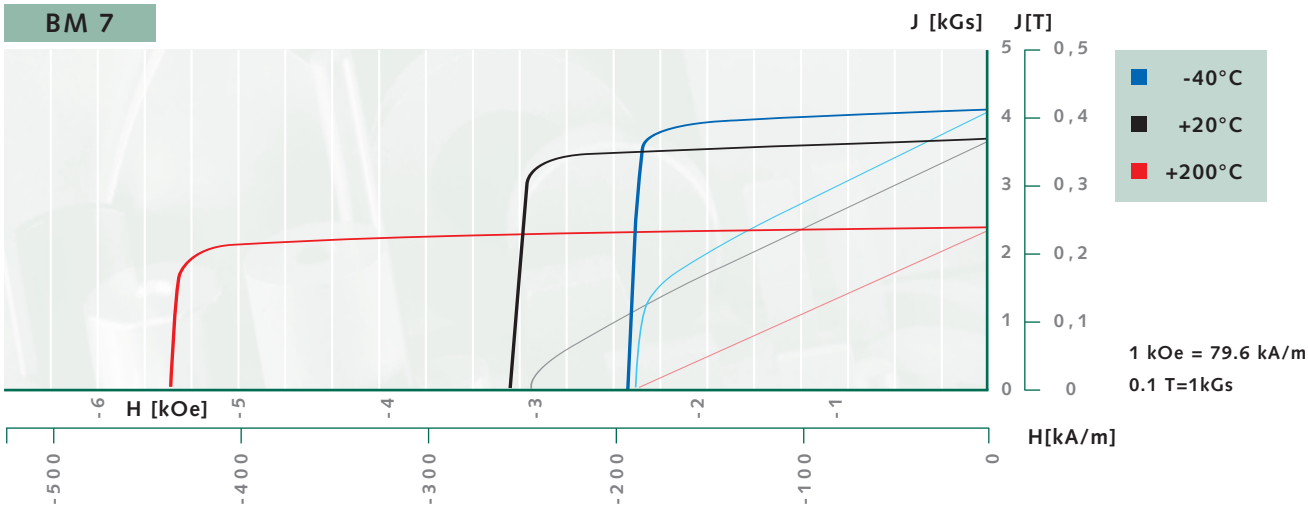


TOLERANCES OF HARD FERRITE MAGNETS

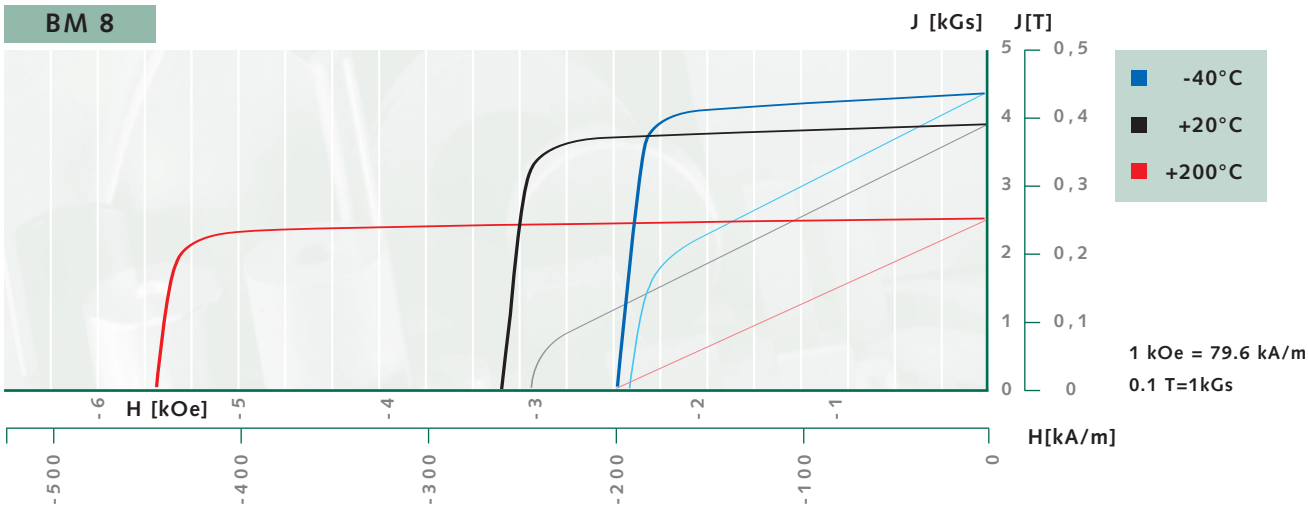
Bakker Magnetics can guarantee tolerances applicable to unfinished magnets (DIN 17410). Customers can obtain the desired tolerances on request. If the customer so wishes, we can deviate from our standard tolerances.

Other demagnetization curves and data from material not shown are available on request.

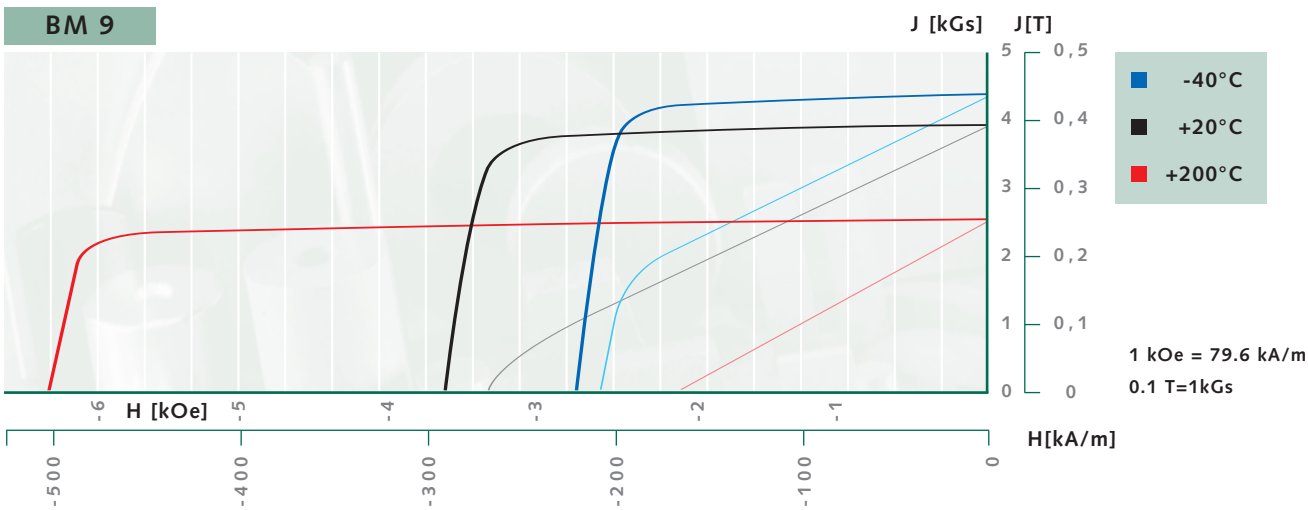
BM 7


J [kGs]
J[T]
5
4
3
2
1
0
0,5
0,4
0,3
0,2
0,1
0
-40°C
+20°C
+200°C
1 kOe = 79.6 kA/m
0.1 T=1kGs
-6
H [kOe]
-5
-4
-3
-2
-1
H[kA/m]
-500
-400
-300
-200
-100
0

BM 8


J [kGs]
J[T]
5
4
3
2
1
0
0,5
0,4
0,3
0,2
0,1
0
-40°C
+20°C
+200°C
1 kOe = 79.6 kA/m
0.1 T=1kGs
-6
H [kOe]
-5
-4
-3
-2
-1
H[kA/m]
-500
-400
-300
-200
-100
0

BM 9


J [kGs]
J[T]
5
4
3
2
1
0
0,5
0,4
0,3
0,2
0,1
0
-40°C
+20°C
+200°C
1 kOe = 79.6 kA/m
0.1 T=1kGs
-6
H [kOe]
-5
-4
-3
-2
-1
H[kA/m]
-500
-400
-300
-200
-100
0