

NEODYMIUM SINTERED

MAGNETIC PROPERTIES

Name	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/m ³		Continuous maximum operating temp. °C
	min	typ	min	typ	min	typ	min	typ			min	typ	min	typ	
	BM 27	10.2	10.6	1020	1060	9.6	10.5	765			836	≥ 12	≥ 955	25	
BM 30	10.8	11.2	1080	1120	9.8	10.5	780	836	≥ 12	≥ 955	28	30	223	239	≤ 80
BM 33	11.3	11.6	1130	1160	10.3	11.0	820	876	≥ 12	≥ 955	31	33	247	263	≤ 80
BM 35	11.7	12.1	1170	1210	10.8	11.2	860	892	≥ 12	≥ 955	33	35	263	279	≤ 80
BM 38	12.0	12.4	1200	1240	11.2	11.9	890	950	≥ 12	≥ 955	36	38	287	302	≤ 80
BM 40	12.5	12.9	1250	1290	11.0	11.5	875	915	≥ 12	≥ 955	38	40	303	318	≤ 80
BM 42	12.8	13.5	1280	1350	11.0	11.5	875	915	≥ 12	≥ 955	40	43	318	342	≤ 80
BM 45	13.3	13.7	1330	1370	10.0	10.5	800	835	≥ 11	≥ 875	43	44	342	350	≤ 80
BM 27 M	10.2	10.6	1020	1060	9.6	10.5	765	836	≥ 14	≥ 1114	25	27	199	215	≤ 100
BM 30 M	10.8	11.2	1080	1120	9.8	10.5	780	836	≥ 14	≥ 1114	28	30	223	239	≤ 100
BM 33 M	11.3	11.7	1130	1170	10.3	11.0	820	876	≥ 14	≥ 1114	31	33	247	263	≤ 100
BM 35 M	11.7	12.1	1170	1210	10.8	11.2	860	892	≥ 14	≥ 1114	33	35	263	279	≤ 100
BM 38 M	12.0	12.4	1200	1240	11.2	11.9	890	950	≥ 14	≥ 1114	36	38	287	302	≤ 100
BM 40 M	12.5	12.9	1250	1290	10.6	11.5	844	915	≥ 14	≥ 1114	38	40	303	318	≤ 100
BM 27 H	10.2	10.6	1020	1060	9.6	10.5	765	836	≥ 17	≥ 1353	25	27	199	215	≤ 120
BM 30 H	10.8	11.2	1080	1120	9.8	10.5	780	836	≥ 17	≥ 1353	28	30	223	239	≤ 120
BM 33 H	11.2	11.5	1120	1150	10.3	11.0	820	876	≥ 17	≥ 1353	31	33	247	263	≤ 120
BM 35 H	11.7	12.1	1170	1210	10.8	11.2	860	892	≥ 17	≥ 1353	33	35	263	279	≤ 120
BM 38 H	12.0	12.4	1200	1240	11.2	11.9	890	950	≥ 17	≥ 1353	36	38	287	302	≤ 120
BM 40 H	12.5	12.9	1250	1290	10.6	11.5	844	915	≥ 17	≥ 1353	38	40	303	318	≤ 120
BM 27 SH	10.2	10.6	1020	1060	9.6	10.5	765	836	≥ 20	≥ 1595	25	27	199	215	≤ 150
BM 30 SH	10.8	11.2	1080	1120	9.8	10.5	780	836	≥ 20	≥ 1595	28	30	223	239	≤ 150
BM 33 SH	11.4	11.8	1140	1180	10.2	11.2	812	891	≥ 20	≥ 1595	31	33	247	263	≤ 150
BM 35 SH	11.7	12.1	1170	1210	10.8	11.2	860	892	≥ 20	≥ 1595	33	35	263	279	≤ 150
BM 38 SH	12.0	12.4	1200	1240	11.2	11.9	890	950	≥ 20	≥ 1595	36	38	287	302	≤ 160
BM 27 UH	10.2	10.6	1020	1060	9.6	10.5	765	836	≥ 25	≥ 1990	25	27	199	215	≤ 160
BM 30 UH	10.8	11.2	1080	1120	10.1	10.6	804	844	≥ 25	≥ 1990	28	30	223	239	≤ 160
BM 33 UH	11.4	11.8	1140	1180	10.3	11.0	820	876	≥ 25	≥ 1990	31	33	247	263	≤ 160
BM 27 EH	10.2	10.6	1020	1060	9.6	10.5	765	836	≥ 30	≥ 2390	25	27	199	215	≤ 180

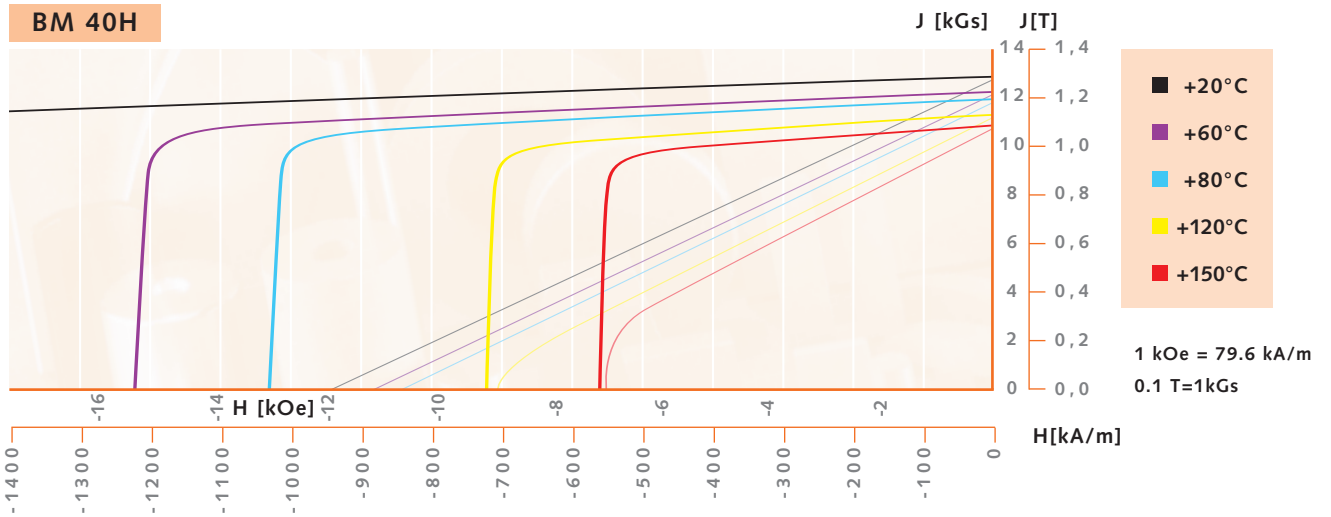
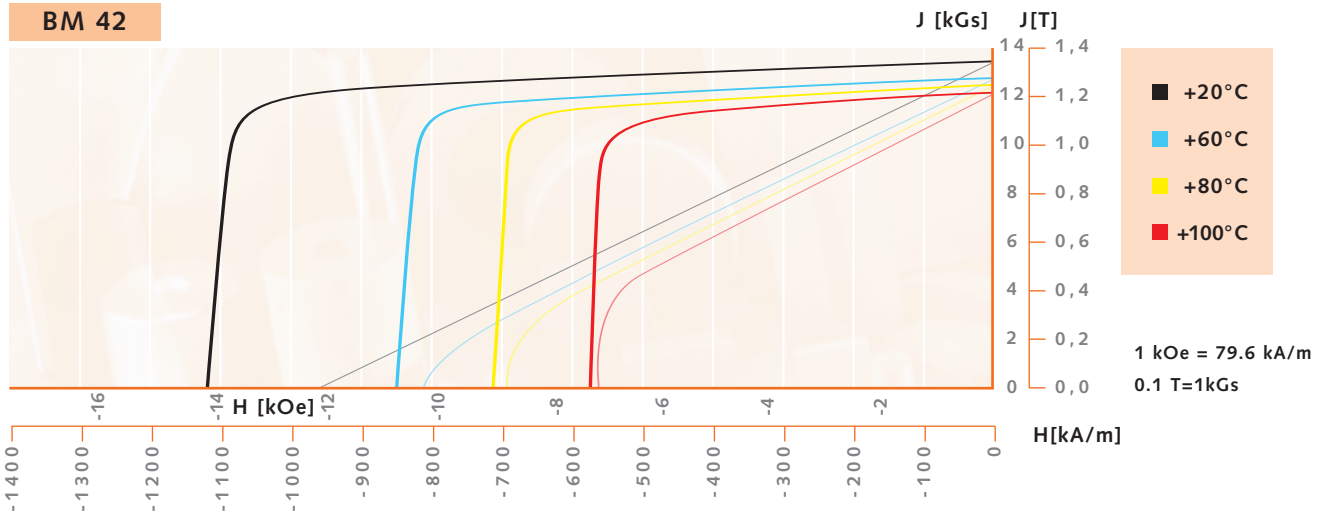
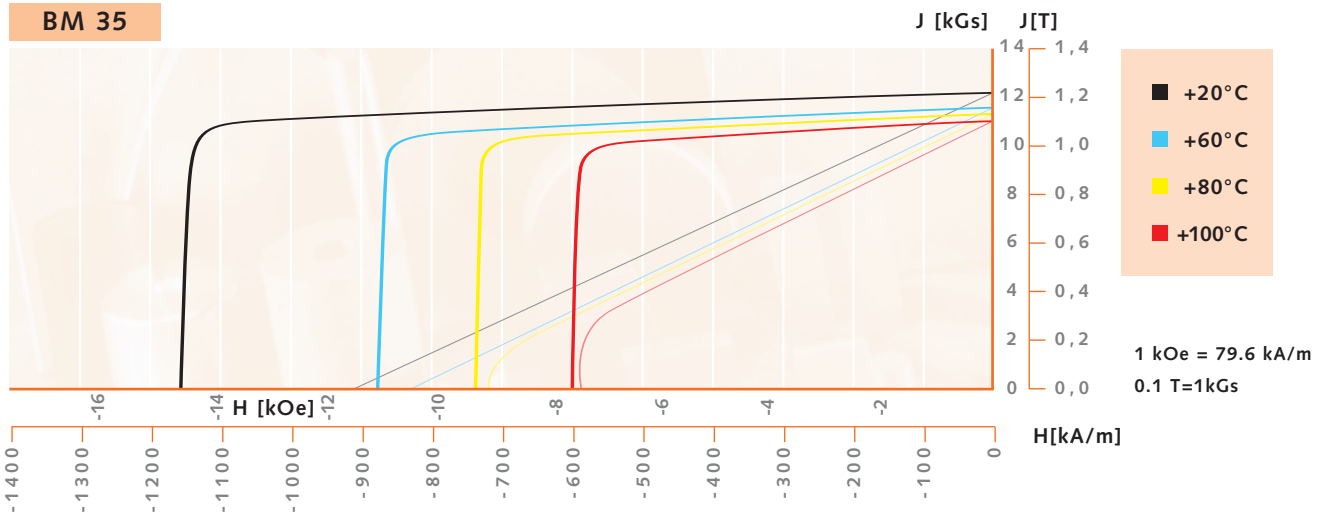
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MAGNETIC PROPERTIES

Name	Temperature coeff. of Br.	Temperature coeff. of HcJ.*	Density	Relative recoil permeability μ rev	Curie temperature	Recommended magnetising field kOe	Recommended magnetising field kA/m
	%/°C	%/°C	g/cm ³		°C		
BM 27- BM 33 UH	-0.12	- 0.6	7.35	1.1	310 - 340	30	2400

* At higher temperatures (from 100°C), the temperature coefficient changes to a lower rate

Above mentioned data are valid for magnets without coating.



TOLERANCES OF NEODYMIUM MAGNETS

Bakker Magnetics is able to guarantee valid tolerances for raw magnets (DIN 17410).

Desired tolerances are obtainable on demand and if requested, we can deviate from our standard tolerances.

Remaining demagnetization curves and data of material not shown, are obtainable on request.

