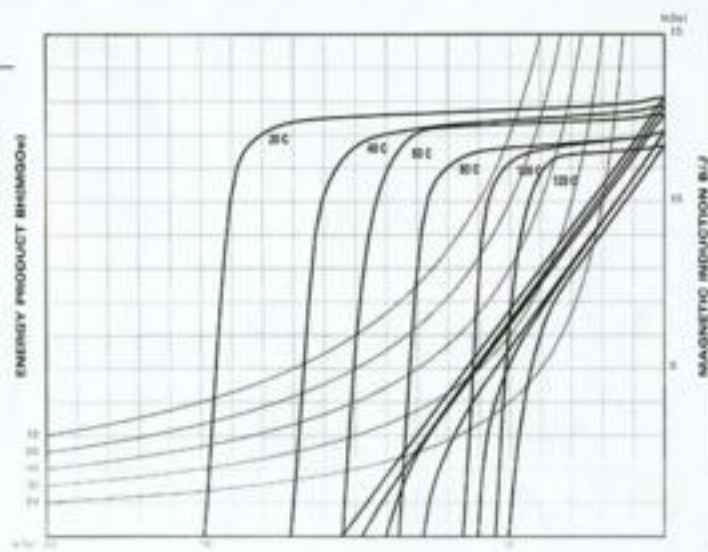


NIM-10000H HYSTERESIGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 11/27/2002

Temp	B ₁₀	H ₁₀	B ₁₅	B ₂₀	B ₃₀	B ₄₀	B ₅₀
(°C)	900	900	900	900	900	900	900
20	12.71	11.89	12.83	42.89	6.69	6.29	10.99
40	12.89	14.32	11.79	38.89	6.22	6.12	12.09
60	12.81	12.51	10.82	37.99	6.13	6.19	10.49
80	12.1	10.32	9.27	32.82	5.05	5.79	9.9
100	12.1	7.89	7.25	33.82	6.44	5.06	9.31
120	11.89	6.19	6.06	30.01	6.03	6.6	9.02

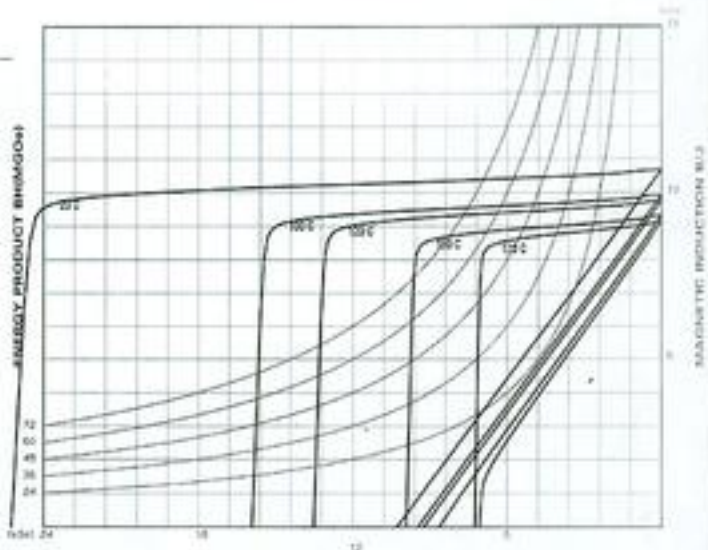


NIM-10000H HYSTERESIGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 10/20/2002

Temp	B ₁₀	H ₁₀	B ₁₅	B ₂₀	B ₃₀	B ₄₀	B ₅₀
(°C)	900	900	900	900	900	900	900
20	10.87	25.29	10.3	27.27	5.4	5.95	20.88
100	9.92	15.92	9.89	23.92	4.95	4.72	15.11
120	9.76	13.91	9.28	20.41	4.88	4.89	12.81
150	9.21	9.93	8.88	20.18	4.83	4.35	9.42
170	9.15	7.29	7.96	19.19	4.83	4.25	8.39

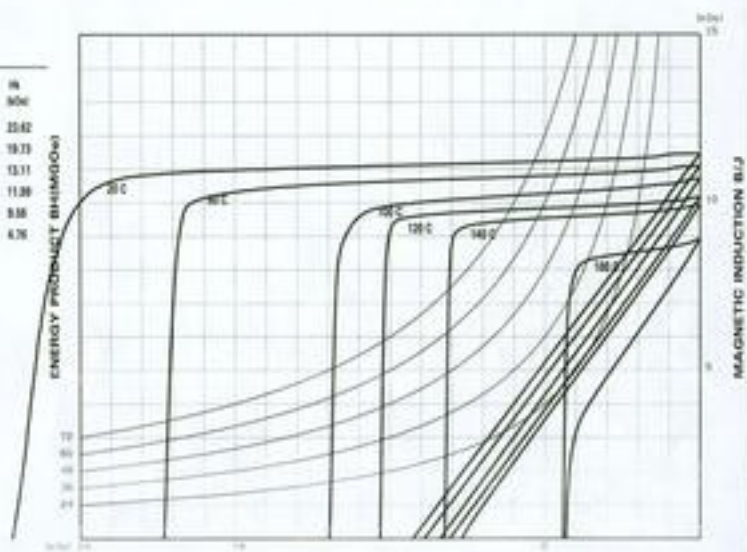


NIM-1000CH HYSTERESIGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12-23-2002

Temp. (°C)	B ₁₀₀	H ₁₀₀	B ₁₅₀	B ₁₈₀	B ₂₀₀	B ₂₂₀	B ₂₄₀
20	11.48	26.89	11.13	21.6	9.88	9.96	22.62
80	11.29	26.76	10.88	20.28	9.49	9.30	19.73
100	10.71	14.37	10.07	20.58	9.16	9.15	13.71
120	10.16	12.29	9.89	24.36	9	4.89	11.89
140	9.94	9.89	9.23	23.01	4.93	4.86	9.94
160	9.92	9.3	9.19	17.42	4.94	3.94	4.76

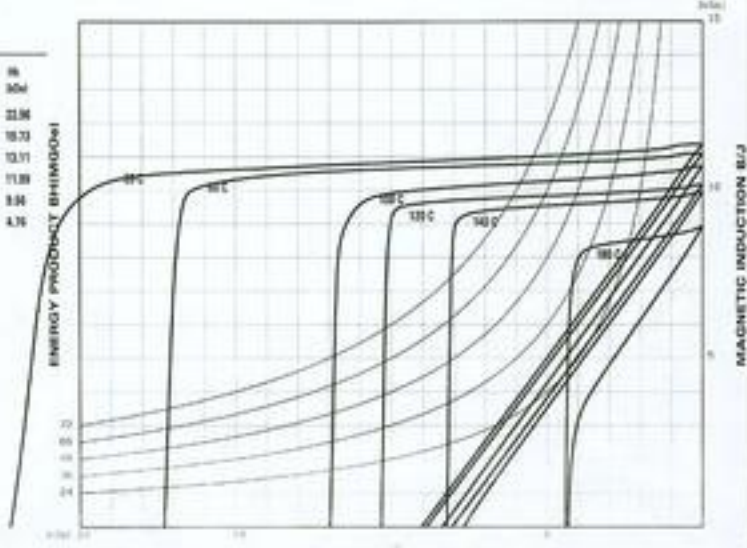


NIM-1000CH HYSTERESIGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12-23-2002

Temp. (°C)	B ₁₀₀	H ₁₀₀	B ₁₅₀	B ₁₈₀	B ₂₀₀	B ₂₂₀	B ₂₄₀
20	11.27	26.89	10.89	20.46	9.82	9.42	22.96
80	11.09	26.76	10.66	20.28	9.49	9.23	19.73
100	10.71	14.37	10.07	20.58	9.16	9.15	13.71
120	10.16	12.29	9.89	24.36	9	4.89	11.89
140	9.94	9.89	9.23	23.01	4.93	4.86	9.94
160	9.92	9.3	9.19	17.42	4.94	3.94	4.76

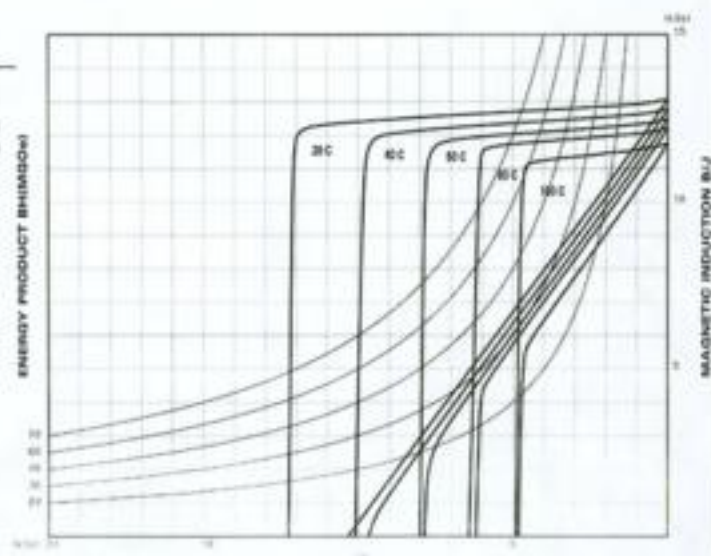


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12.30.2000

Temp	B ₁₀	H ₁₀	B ₁₅	H ₁₅	B ₂₀	H ₂₀	B ₂₅	H ₂₅
(°C)	kG/G	kA/m	kG/G	kA/m	kG/G	kA/m	kG/G	kA/m
20	13.87	14.70	12.39	49.28	6.47	6.22	14.46	
40	12.77	12.5	11.58	38.18	6.27	6	11.83	
60	12.48	9.62	9.43	36.24	6.24	5.8	9.28	
80	12.22	7.71	7.43	34.66	6.08	5.7	7.28	
100	11.76	5.8	5.79	31.18	6.05	5.55	5.8	

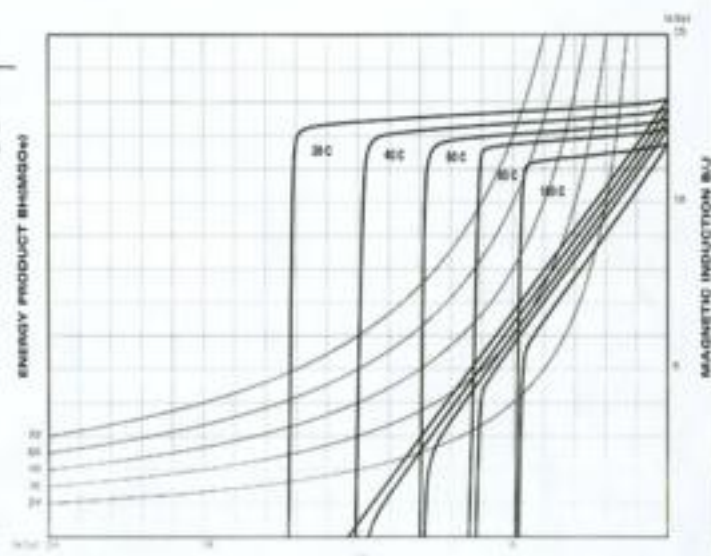


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12.30.2000

Temp	B ₁₀	H ₁₀	B ₁₅	H ₁₅	B ₂₀	H ₂₀	B ₂₅	H ₂₅
(°C)	kG/G	kA/m	kG/G	kA/m	kG/G	kA/m	kG/G	kA/m
20	13.87	14.70	12.39	49.28	6.47	6.22	14.46	
40	12.77	12.5	11.58	38.18	6.27	6	11.83	
60	12.48	9.62	9.43	36.24	6.24	5.8	9.28	
80	12.22	7.71	7.43	34.66	6.08	5.7	7.28	
100	11.76	5.8	5.79	31.18	6.05	5.55	5.8	

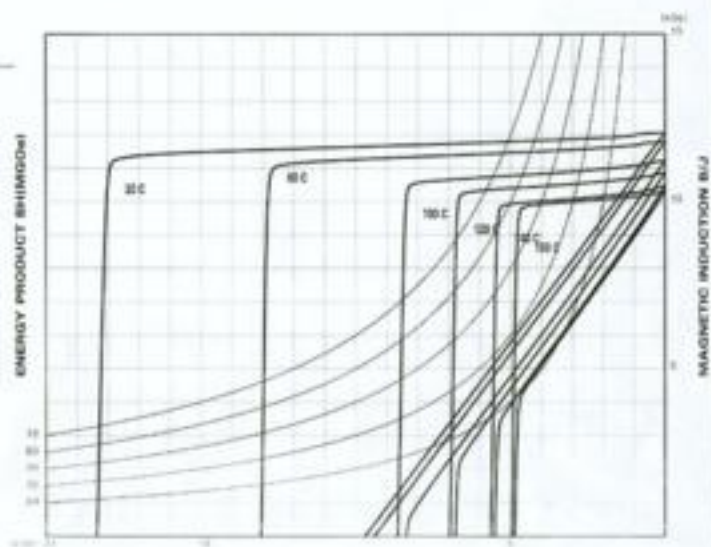


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12-23-2002

Temp. (°C)	B ₁₀ 90%	H ₁₀ 90%	B ₅₀ 90%	H ₅₀ 90%	B ₈₀ 90%	H ₈₀ 90%	B ₉₀ 90%	H ₉₀ 90%
20	12.08	22.94	11.69	24.84	9.98	9.98	21.95	
40	11.78	19.49	11.28	22.32	9.81	9.81	19.26	
60	11.23	18.4	10.09	20.2	9.59	9.59	18.08	
80	10.89	9.37	8.76	27.29	9.20	9.12	9.07	
100	10.48	6.78	6.81	25.26	9.12	4.59	6.48	
120	10.21	5.97	5.94	24.42	6.71	4.82	5.72	

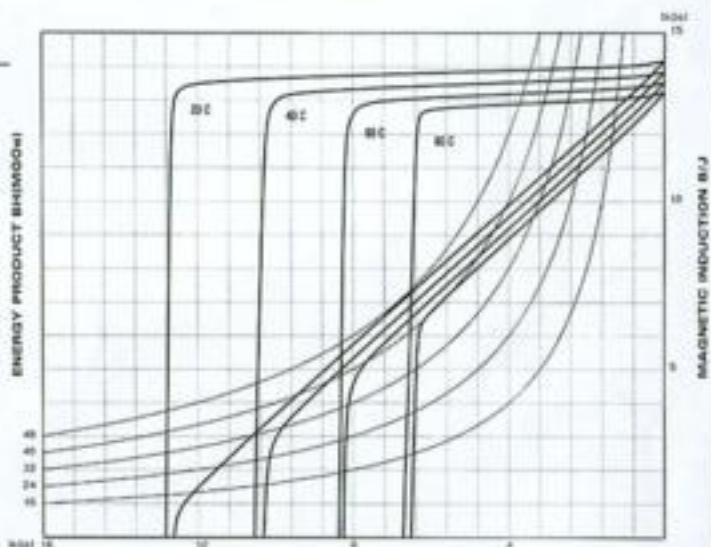


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12-30-2002

Temp. (°C)	B ₁₀ 90%	H ₁₀ 90%	B ₅₀ 90%	H ₅₀ 90%	B ₈₀ 90%	H ₈₀ 90%	B ₉₀ 90%	H ₉₀ 90%
20	14.78	12.83	12.83	47.51	7.92	6.78	12.81	
40	13.82	10.38	10.21	44.50	6.82	6.5	10.18	
60	13.32	8.38	8.28	42.55	6.78	6.31	8.71	
80	13.22	6.73	6.52	40.27	6.82	5.9	6.38	

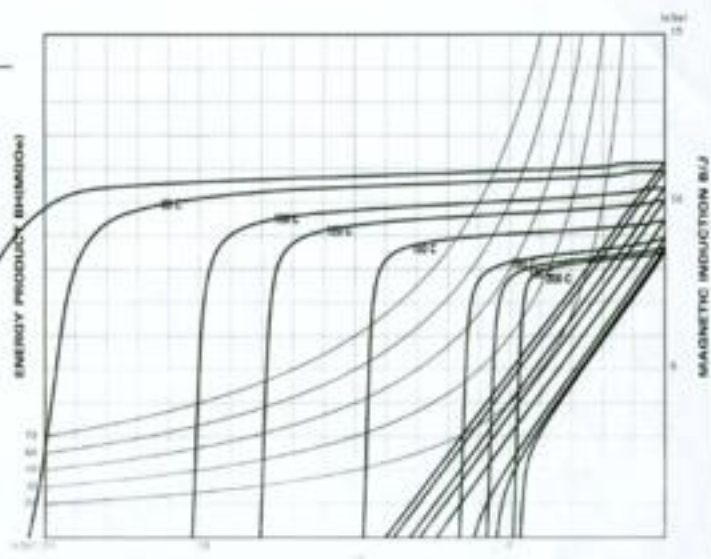


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12.23.2002

Temp. (°C)	B _h mT	H _h kA/m	B _h mT	B _h mT	B _h mT	B _h mT	B _h mT	B _h mT
20	11.18	26.4	19.81	30.33	5.87	5.26	23.51	
80	10.92	24.83	19.81	28.49	5.48	5.2	20.13	
100	10.42	18.2	9.87	25.42	5.14	4.94	15.78	
120	10.04	15.88	9.49	22.15	5	4.71	13.73	
180	9.45	11.88	8.85	20.22	4.38	4.57	10.45	
190	8.94	7.87	7.28	17.81	4.28	4.28	6.82	
195	8.88	6.8	6.52	14.31	4.23	3.9	5.91	
200	8.53	5.88	5.4	14.49	4.25	3.85	5.2	

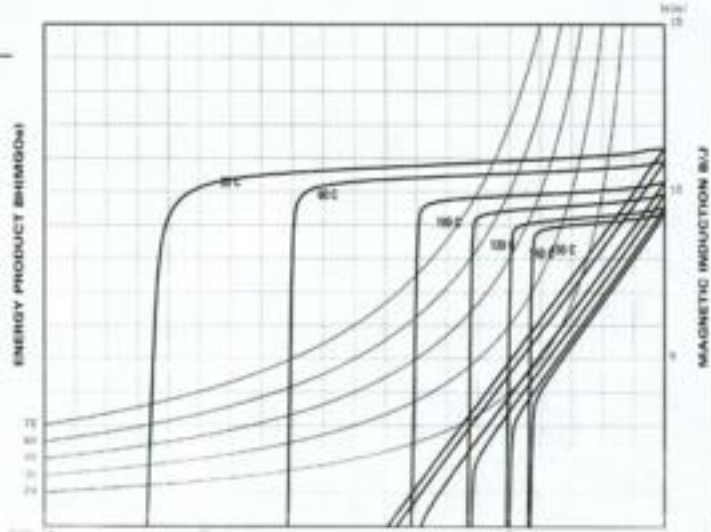


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12.23.2002

Temp. (°C)	B _h mT	H _h kA/m	B _h mT	B _h mT	B _h mT	B _h mT	B _h mT	B _h mT
20	11.23	26.83	19.73	29.36	5.8	5.25	11.88	
80	10.9	14.88	19.38	27.88	5.47	5.12	14.11	
100	10.28	9.8	9.42	24.81	5.08	4.84	9.47	
120	9.83	7.82	7.48	21.88	4.88	4.67	7.38	
180	9.34	6.73	6.81	20.88	4.73	4.42	5.88	
190	8.38	5.28	5.2	18.32	4.78	4.18	5.27	

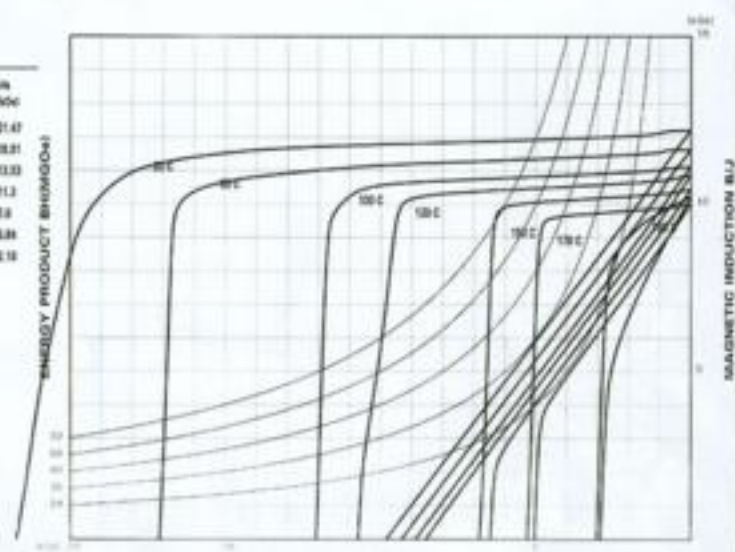


NIM-10000H HYSTERESIGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 01/07/2003

Temp. (°C)	B _r mT	H _{ci} kA/m	H _{cb} kA/m	B _{hc} mT	B _h mT	H _c kA/m	H _u kA/m
20	12.21	26.09	11.78	33.59	6.00	5.9	21.47
60	11.84	25.55	11.79	32.21	5.79	5.58	19.91
100	11.12	14.5	10.68	28.43	5.5	5.26	13.33
120	10.86	13.86	10.25	27.64	5.21	5.2	11.2
160	10.44	9.17	7.76	25.55	5.22	4.9	7.8
170	10.01	6.33	6.05	22.27	5.07	4.81	5.88
180	10.23	3.84	3.49	18.26	5.06	3.89	2.18

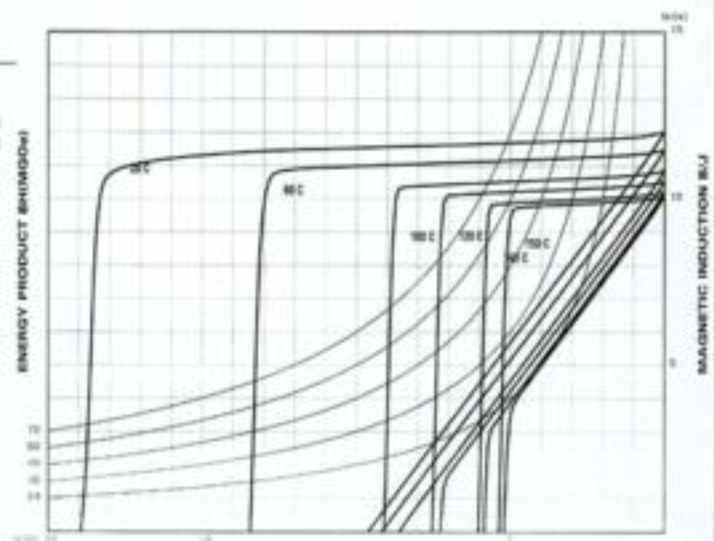


NIM-10000H HYSTERESIGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 01/10/2003

Temp. (°C)	B _r mT	H _{ci} kA/m	H _{cb} kA/m	B _{hc} mT	B _h mT	H _c kA/m	H _u kA/m
20	10.00	22.70	11.09	34.2	5.81	5.79	21.46
60	11.49	16.12	11.02	31.21	5.68	5.6	19.08
100	10.40	10.85	10.22	27.94	5.29	5.26	10.6
120	10.55	9.89	9.70	26.24	5.12	5.12	9.94
160	10.23	7.26	7.01	23.65	5.11	4.82	6.89
180	10.1	6.45	6.25	22.99	5.08	4.73	6.07

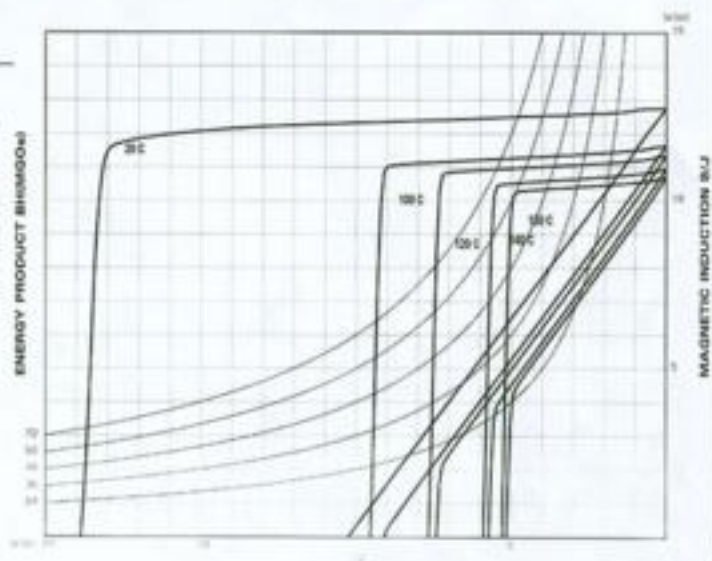


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 01-03-2002

Temp (°C)	B ₁₀ 90A	B ₅₀ 90A	B ₁₀ 90A	B ₅₀ 90A	B ₁₀ 90A	B ₅₀ 90A	B ₁₀ 90A	B ₅₀ 90A
20	12.76	22.63	12.31	22.02	6.38	6.12	21.38	
100	11.84	11.84	16.89	21.26	5.74	5.35	13.87	
120	11.34	8.19	8.87	20.21	5.06	5.34	8.78	
140	10.80	7.06	6.85	22.88	5.45	5.71	6.89	
160	10.7	6.25	6.19	24.87	5.28	5.87	6.51	

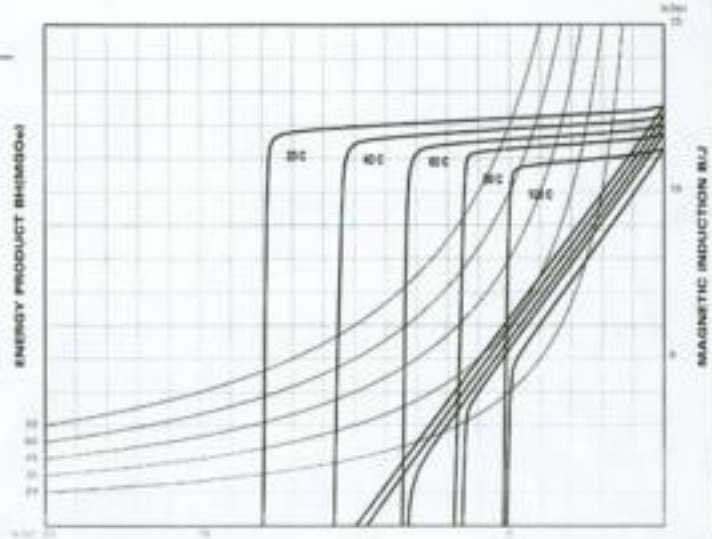


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12-03-2002

Temp (°C)	B ₁₀ 90A	B ₅₀ 90A	B ₁₀ 90A	B ₅₀ 90A	B ₁₀ 90A	B ₅₀ 90A	B ₁₀ 90A	B ₅₀ 90A
20	12.85	15.58	11.88	20.7	6.17	6.05	15.28	
40	12.27	12.8	11.55	20.97	6.1	5.8	12.31	
60	12	10.18	9.92	22.4	5.34	5.88	9.82	
80	11.72	8.16	7.84	23.06	5.85	5.48	7.7	
100	11.28	6.25	6.11	25.08	5.85	5.74	5.93	

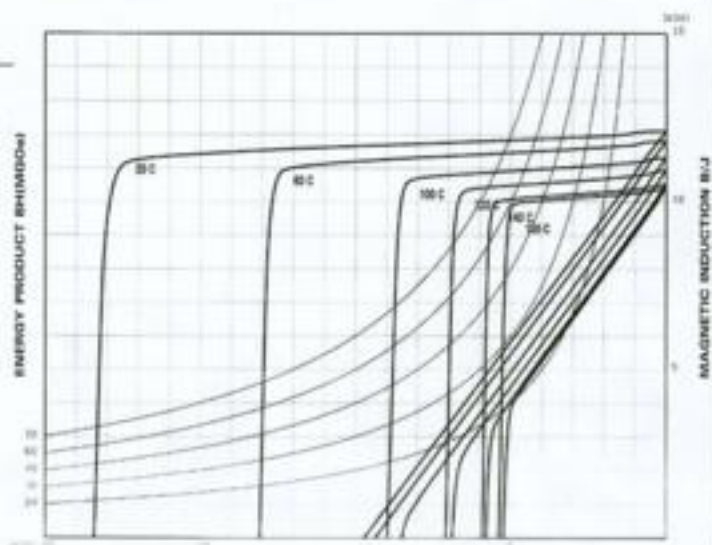


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12-25-2002

Temp. (°C)	B _h 900G	H _g 90A	B _h 90G	H _g 90A	B _h 900G	H _g 90A	B _h 900G	H _g 90A
20	12.12	20.1	11.87	20.87	9.87	9.87	9.87	21.17
40	11.81	19.7	11.24	21.06	9.87	9.87	9.87	19.26
100	11.32	18.78	10.2	20	9.82	9.24	10.2	
120	10.86	8.91	8.25	21.75	9.28	9.19	9.09	
140	10.34	7.08	6.94	23.78	9.25	4.91	6.79	
160	10.43	6.88	6.09	25.2	6.78	4.86	6.1	

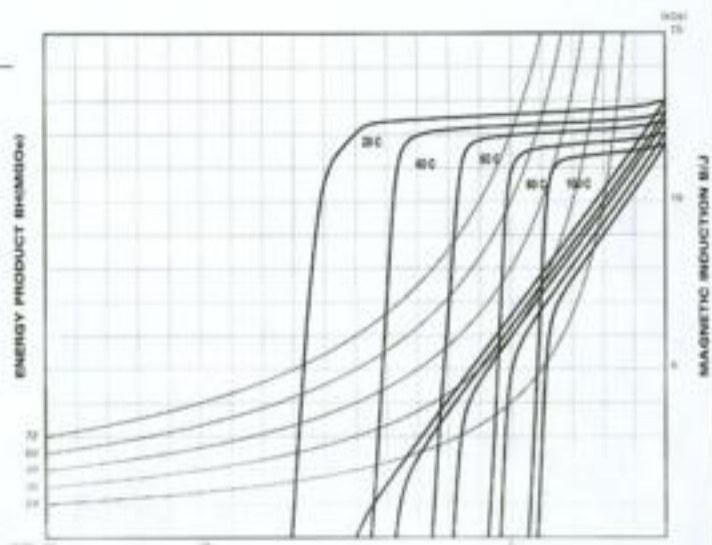


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 01-14-2003

Temp. (°C)	B _h 900G	H _g 90A	B _h 90G	H _g 90A	B _h 900G	H _g 90A	B _h 900G	H _g 90A
20	12.97	14.3	12.01	20.9	9.48	9.16	12.42	
40	12.83	11.43	10.46	21.58	9.27	6.85	10.26	
60	12.28	9.08	8.25	20.89	9.07	5.9	7.87	
80	12.03	6.9	6.42	20.20	8.28	5.28	6.91	
100	11.71	5.24	4.88	20.09	6.88	4.24	4.97	

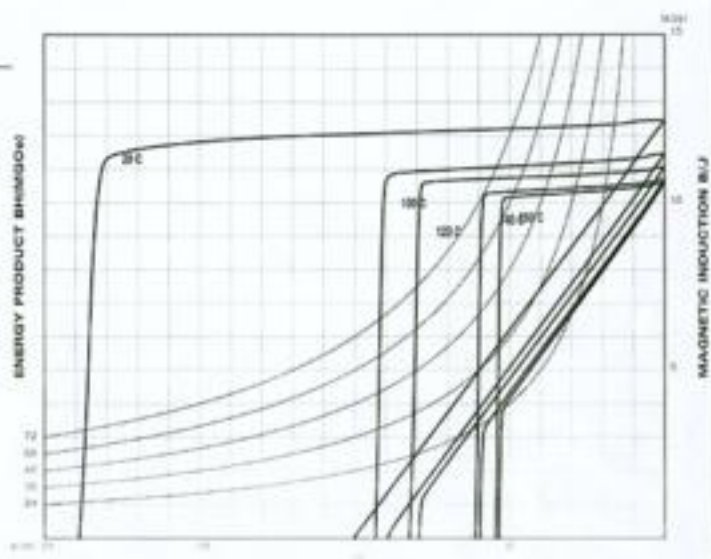


NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 01-07-2003

Temp. (°C)	B _r mT	H _{ci} kOe	H _{cb} kOe	B ₁₀₀ mT	B ₁₅₀ mT	H ₁₀₀ kOe	H ₁₅₀ kOe
20	12.45	22.87	12.06	37.27	8.15	8.85	21.88
100	11.80	17.25	10.33	30.88	5.88	5.40	19.86
120	11.06	9.89	9.62	26.88	5.47	5.3	9.3
140	10.69	7.24	7.17	24.9	5.25	5.03	7.87
160	10.5	6.55	6.42	23.16	5.28	4.97	6.33



NIM-10000H HYSTERESISGRAPH TEST REPORT

Ningbo Guanneng Mangnet Co.,Ltd.

Date: 12-23-2002

Temp. (°C)	B _r mT	H _{ci} kOe	H _{cb} kOe	B ₁₀₀ mT	B ₁₅₀ mT	H ₁₀₀ kOe	H ₁₅₀ kOe
20	12.81	19.8	12.4	36.3	8.38	8.15	19.4
40	12.72	14.94	12.23	30.93	8.27	8.15	14.82
60	12.9	12.8	11.94	31.14	8.15	8.04	13.23
80	12.18	11.58	11.38	30.73	8.03	8.03	11.29
100	11.78	8.25	8.08	30.48	5.89	5.81	7.86
120	11.37	6.58	6.29	29.89	5.8	5.15	6.88

