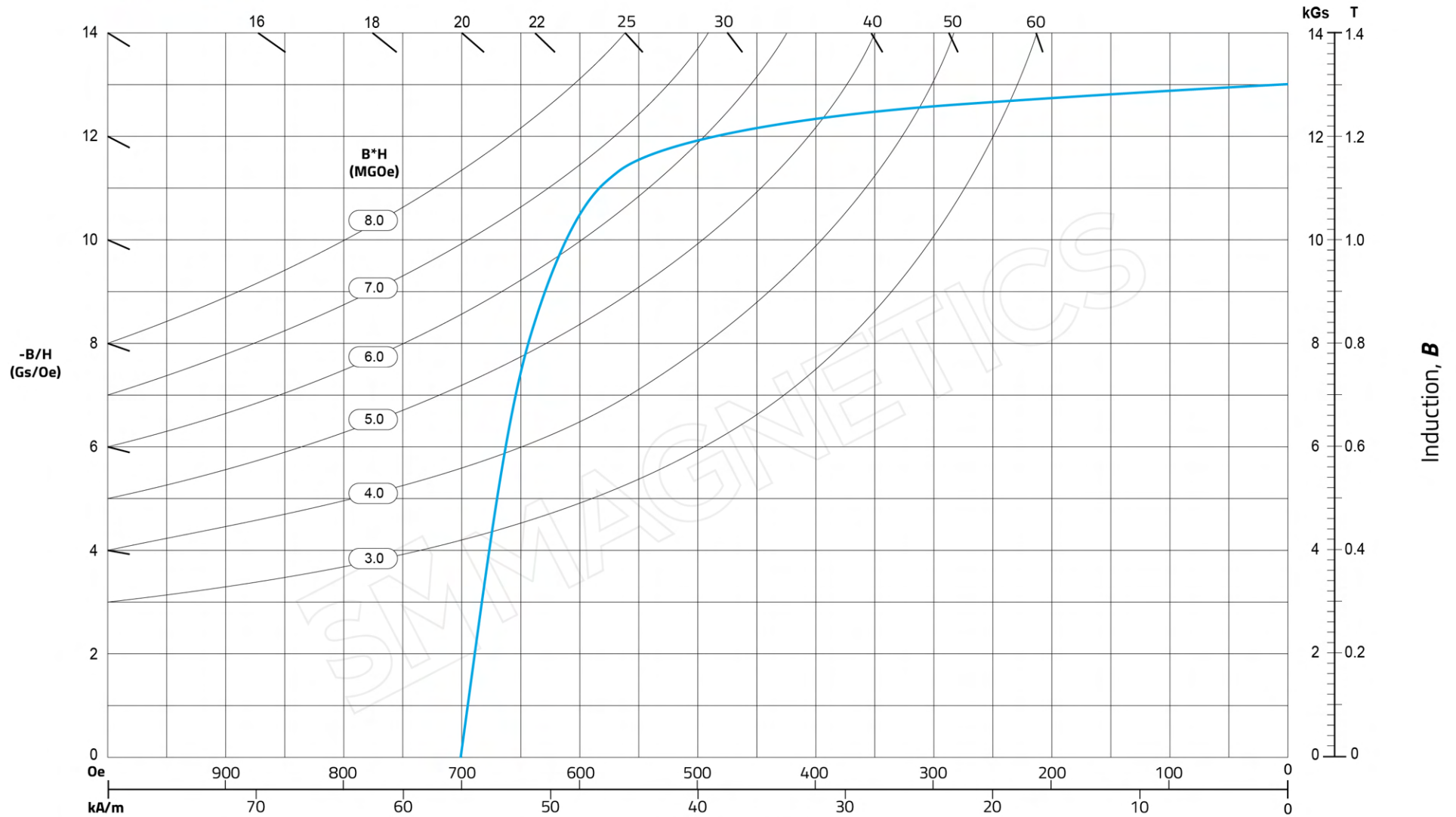


Typical Magnetic Properties for Alnico Magnets

Grade	Remanence		Coercivity				Max Energy Product		Temperature Coefficient		Max Working Temperature	MMPA
	B_r		H_{cB}		H_{cJ}		$(BH)_{max}$		$\alpha(B_r)$	$\beta(H_{cJ})$	$T_{w,Max}$	
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	%/°C	%/°C	° C	
LN10	0.65	6.5	38	0.48	40	0.5	10	1.25	-0.035	-0.025	450	AlNiCo 3
LNG12	0.75	7.5	45	0.56	46	0.58	12	1.5	-0.03	-0.02	450	AlNiCo 2
LNGT18	0.55	5.5	90	1.13	97	1.21	18	2.25	-0.025	+0.01	550	AlNiCo 8
LNG34	1.1	11	50	0.63	52	0.65	34	4.25	-0.02	+0.01	525	AlNiCo 5
LNG37	1.18	11.8	49	0.61	51	0.64	37	4.63	-0.02	+0.01	525	
LNG40	1.2	12	50	0.63	52	0.65	40	5	-0.02	+0.01	525	
LNG44	1.25	12.5	52	0.65	54	0.68	44	5.5	-0.02	+0.01	525	
LNGT28	1.05	10.5	56	0.70	58	0.73	28	3.5	-0.02	+0.03	525	
LNG52	1.3	13	56	0.7	58	0.73	52	6.5	-0.02	+0.03	525	AlNiCo 5DG
LNG60	1.35	13.5	58	0.73	60	0.75	60	7.5	-0.02	+0.03	525	AlNiCo 5-7
LNGT34	0.8	8.0	104	1.31	106	1.33	34	4.3	-0.03	+0.01	550	AlNiCo 8
LNGT38	0.8	8	110	1.38	112	1.4	38	4.75	-0.025	+0.01	550	
LNGT40	0.85	8.5	115	1.44	117	1.46	40	5	-0.025	+0.01	550	
LNGT44	0.9	9	115	1.44	117	1.46	44	5.5	-0.025	+0.01	550	
LNGT36J	0.72	7.2	150	1.88	144	1.8	36	4.5	-0.025	+0.01	550	AlNiCo 8HC
LNGT40J	0.75	7.5	144	1.80	159	2.0	40	5.0	-0.025	+0.01	550	AlNiCo 9
LNGT60	1	10	110	1.38	112	1.4	60	7.5	-0.025	+0.01	550	
LNGT72	1.05	10.5	115	1.44	117	1.46	72	9	-0.025	+0.01	550	
LNGT80	1.08	10.8	120	1.5	122	1.53	80	10	-0.025	+0.01	550	
LNGT96	1.1	11.0	128	1.6	122	1.53	96	12	-0.025	+0.01	550	AlNiCo 2
FLNG10	0.65	6.5	40	0.5	42	0.53	10	1.25	-0.04	-0.02	450	
FLNG12	0.75	7.5	45	0.56	46	0.58	12	1.5	-0.035	-0.025	450	AlNiCo 3
FLNGT18	0.6	6	95	1.19	98	1.23	18	2.25	-0.025	+0.01	550	AlNiCo 8
FLNGT20	0.62	6.2	100	1.25	105	1.31	20	2.5	-0.025	+0.01	550	
FLNG34	1.15	11.5	48	0.6	50	0.63	34	4.25	-0.02	+0.01	525	AlNiCo 5
FLNG37	1.2	12.0	48	0.6	50	0.63	37	4.70	-0.02	+0.01	525	
FLNGT28	1.1	11	58	0.73	60	0.75	28	3.5	-0.02	+0.03	525	AlNiCo 6
FLNGT36J	0.72	7.2	140	1.75	144	1.8	36	4.5	-0.025	+0.01	550	AlNiCo 8HC
FLNGT38	0.75	8	144	1.80	159	2.0	40	5.00	-0.025	+0.01	550	AlNiCo 8
FLNGT40J	0.8	8	110	1.38	112	1.4	38	4.75	-0.025	+0.01	550	
FLNGT44	0.85	8.5	120	1.5	122	1.53	44	5.5	-0.025	+0.01	550	
FLNGT48	0.92	9.2	125	1.56	127	1.59	48	6	-0.025	+0.01	550	

*For Alnico grades FLNG & FLNGT curves available upon request

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LN10

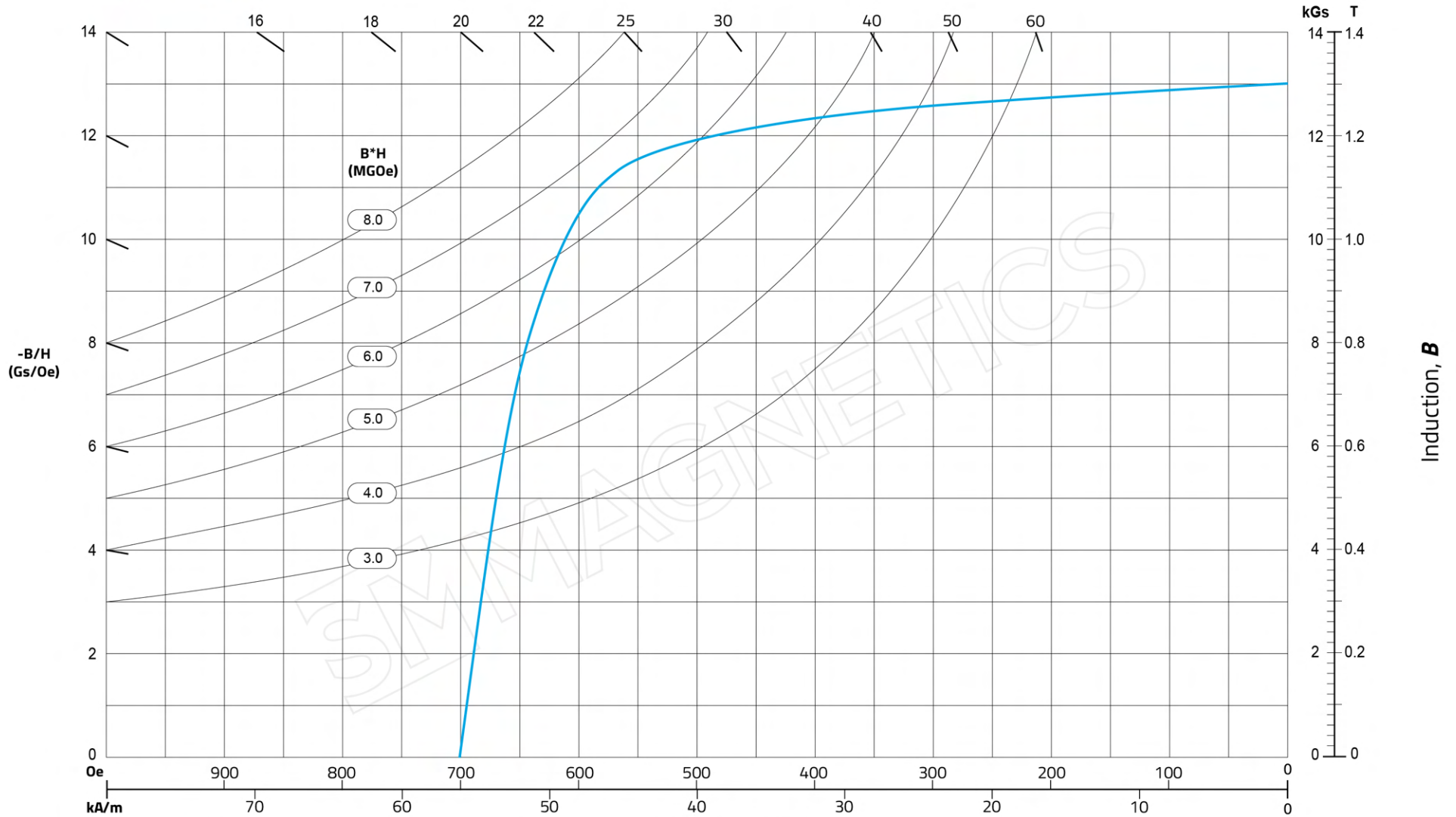
Magnetic Properties:
(20°C)

B_r (Remanence):
6.5 kGs 0.65T

H_{CB} (Normal Coercivity):
480 Oe 38 kA/m

$(BH)_{max}$ (Max Energy Product):
1.25 MGOe 10 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNG12

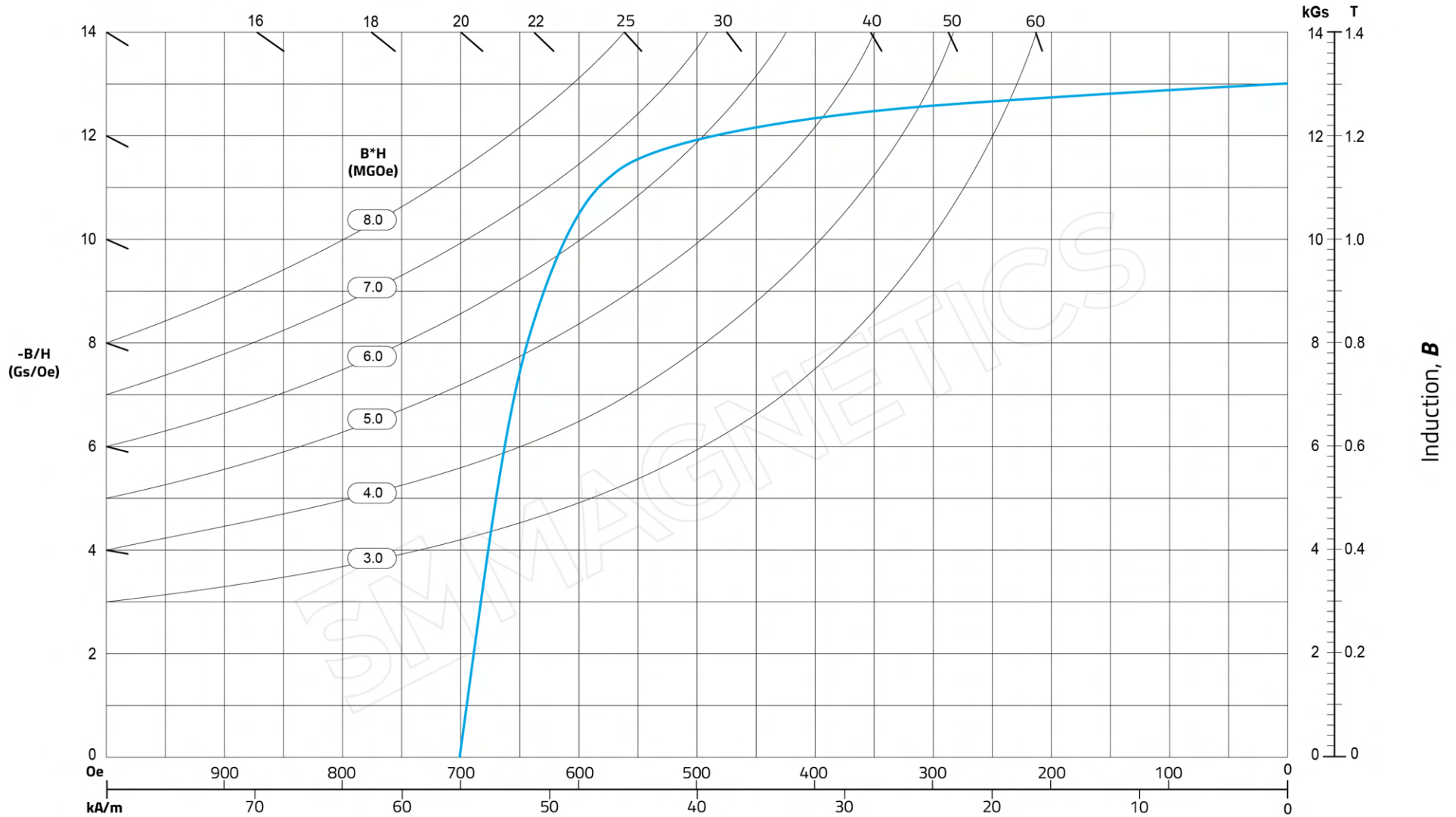
Magnetic Properties:
(20°C)

B_r (Remanence):
7.5 kGs 0.75T

H_{CB} (Normal Coercivity):
560 Oe 45 kA/m

$(BH)_{max}$ (Max Energy Product):
1.5 MGOe 12 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNGT18

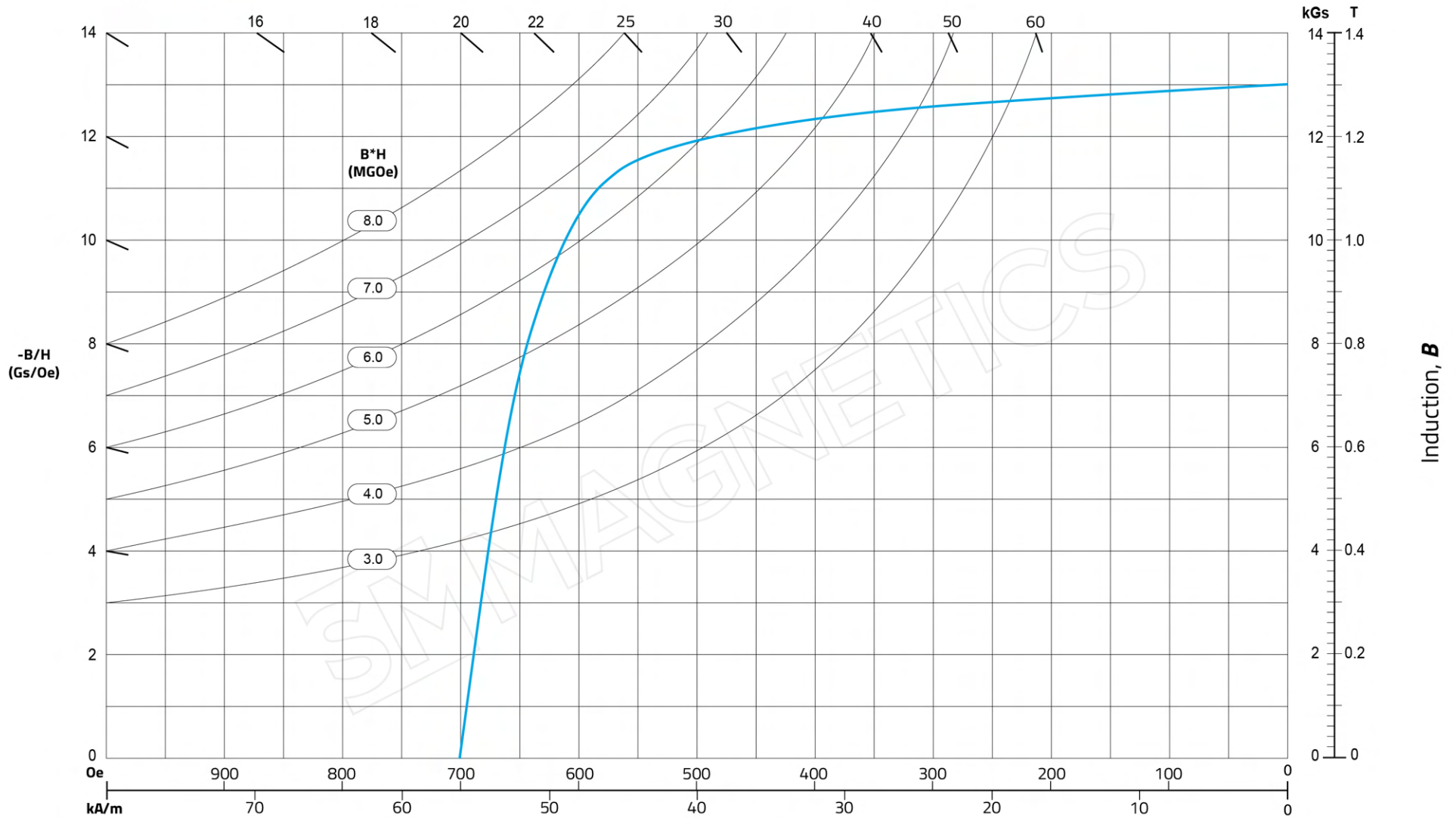
Magnetic Properties:
(20°C)

B_r (Remanence):
5.5 kGs 0.55T

H_{cB} (Normal Coercivity):
1130 Oe 90 kA/m

$(BH)_{max}$ (Max Energy Product):
2.25 MGOe 18 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNG34

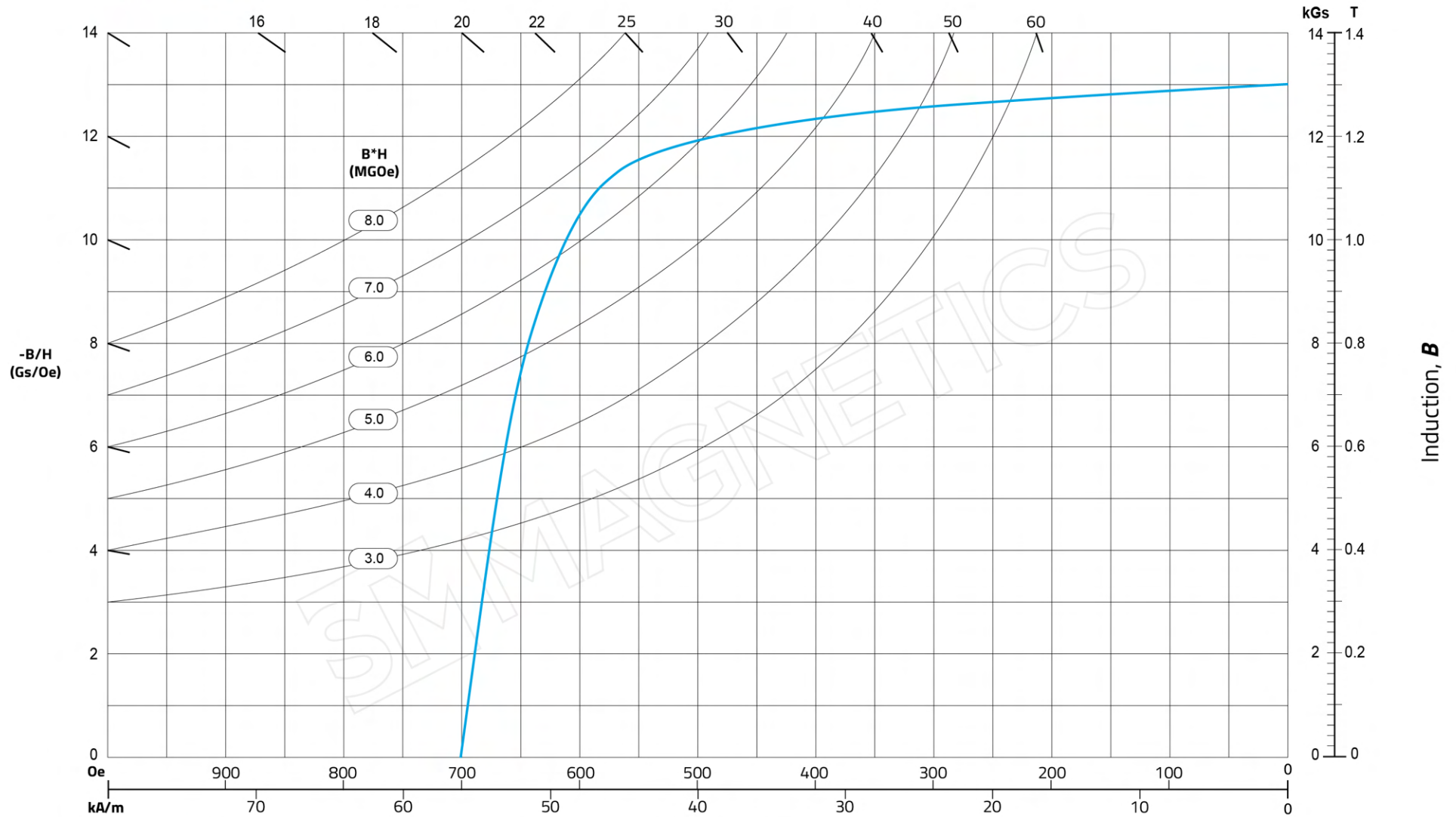
Magnetic Properties:
(20°C)

B_r (Remanence):
11 kGs 1.1T

H_{CB} (Normal Coercivity):
630 Oe 50 kA/m

$(BH)_{max}$ (Max Energy Product):
4.25 MGOe 34 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNG37

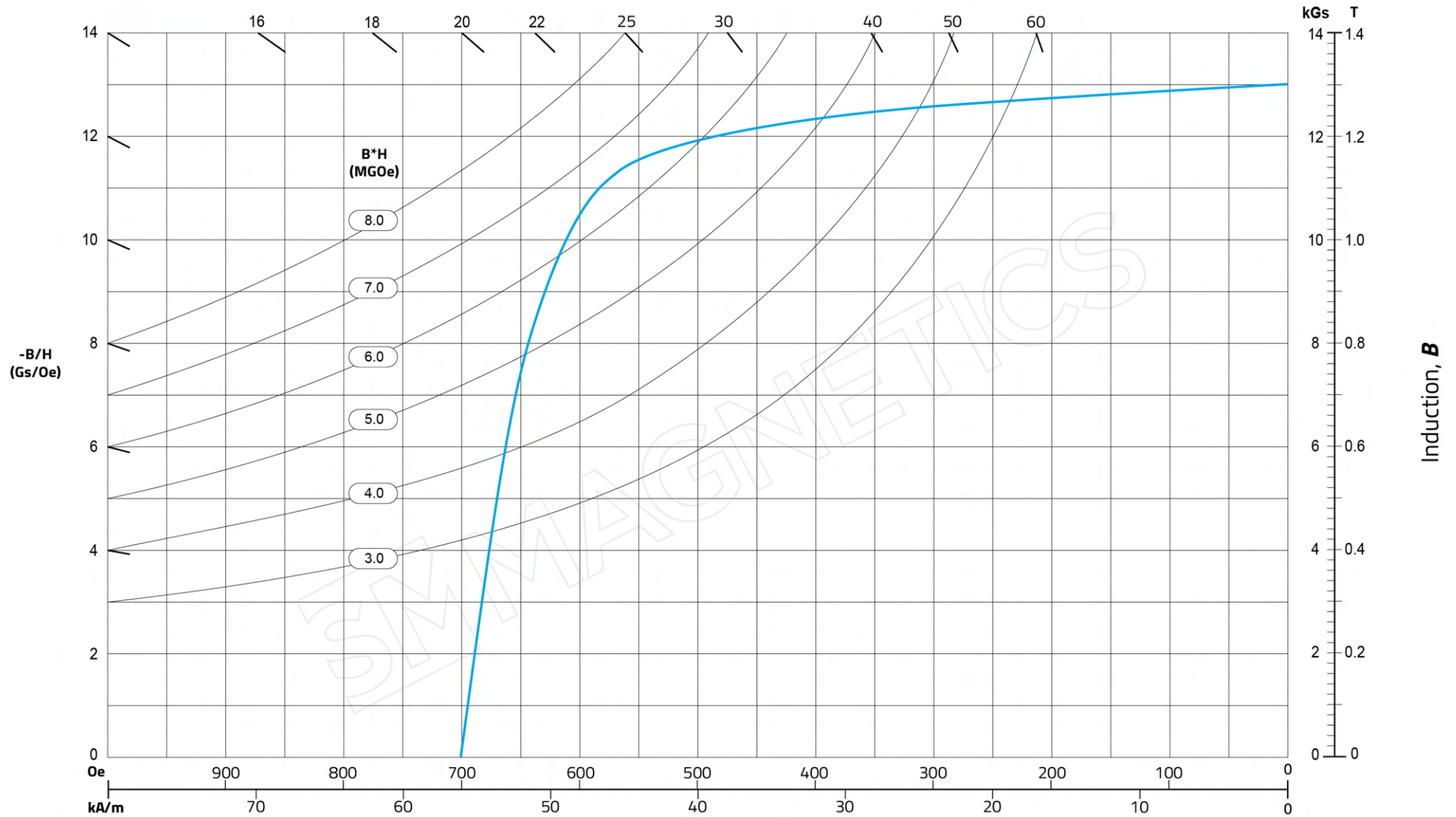
Magnetic Properties:
(20°C)

B_r (Remanence):
11.8 kGs 1.18T

H_{cB} (Normal Coercivity):
610 Oe 49 kA/m

$(BH)_{max}$ (Max Energy Product):
4.63 MGOe 37 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNG40

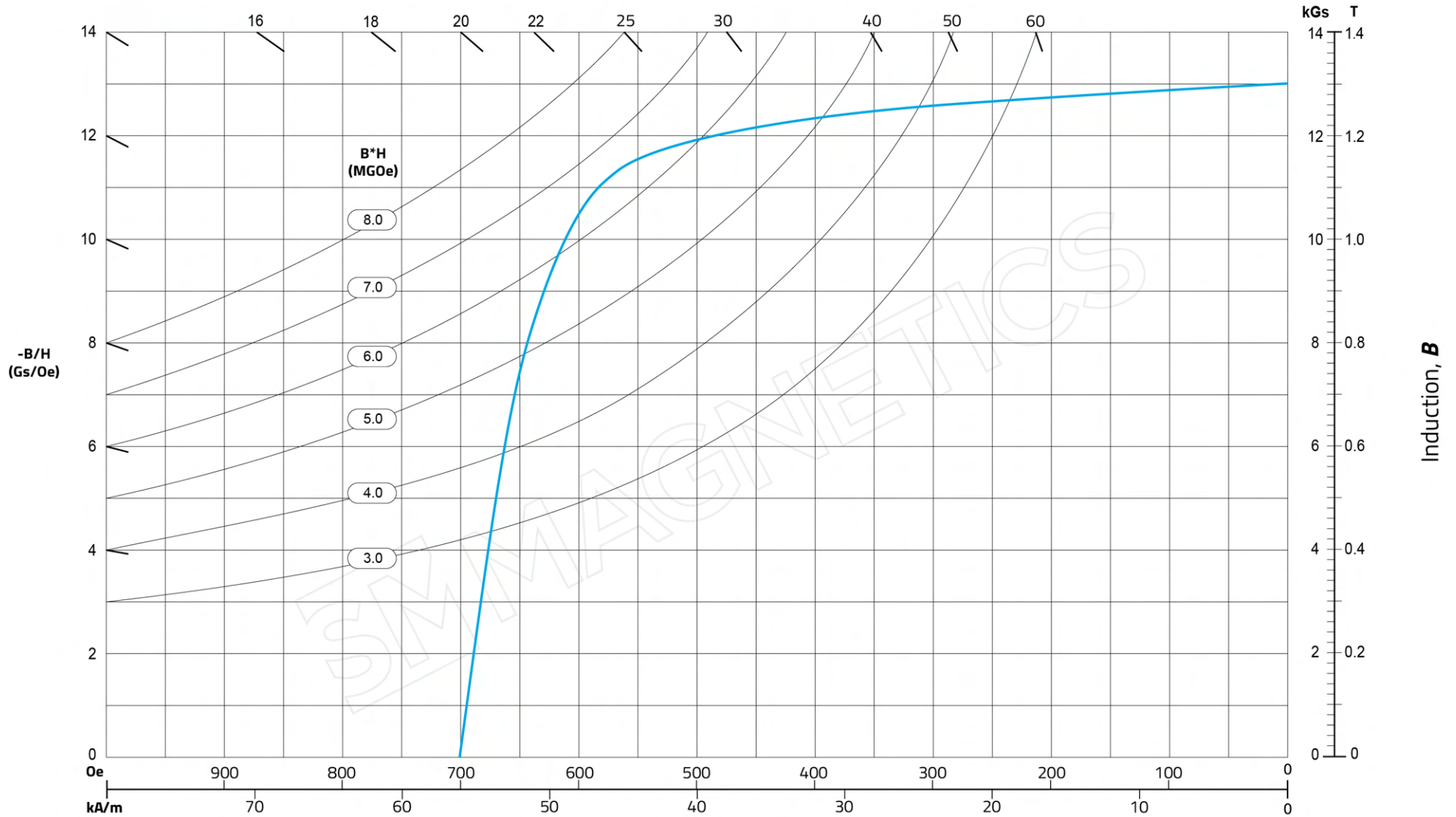
Magnetic Properties:
(20°C)

B_r (Remanence):
12 kGs 1.2T

H_{CB} (Normal Coercivity):
630 Oe 50 kA/m

$(BH)_{max}$ (Max Energy Product):
5 MGOe 40 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNG44

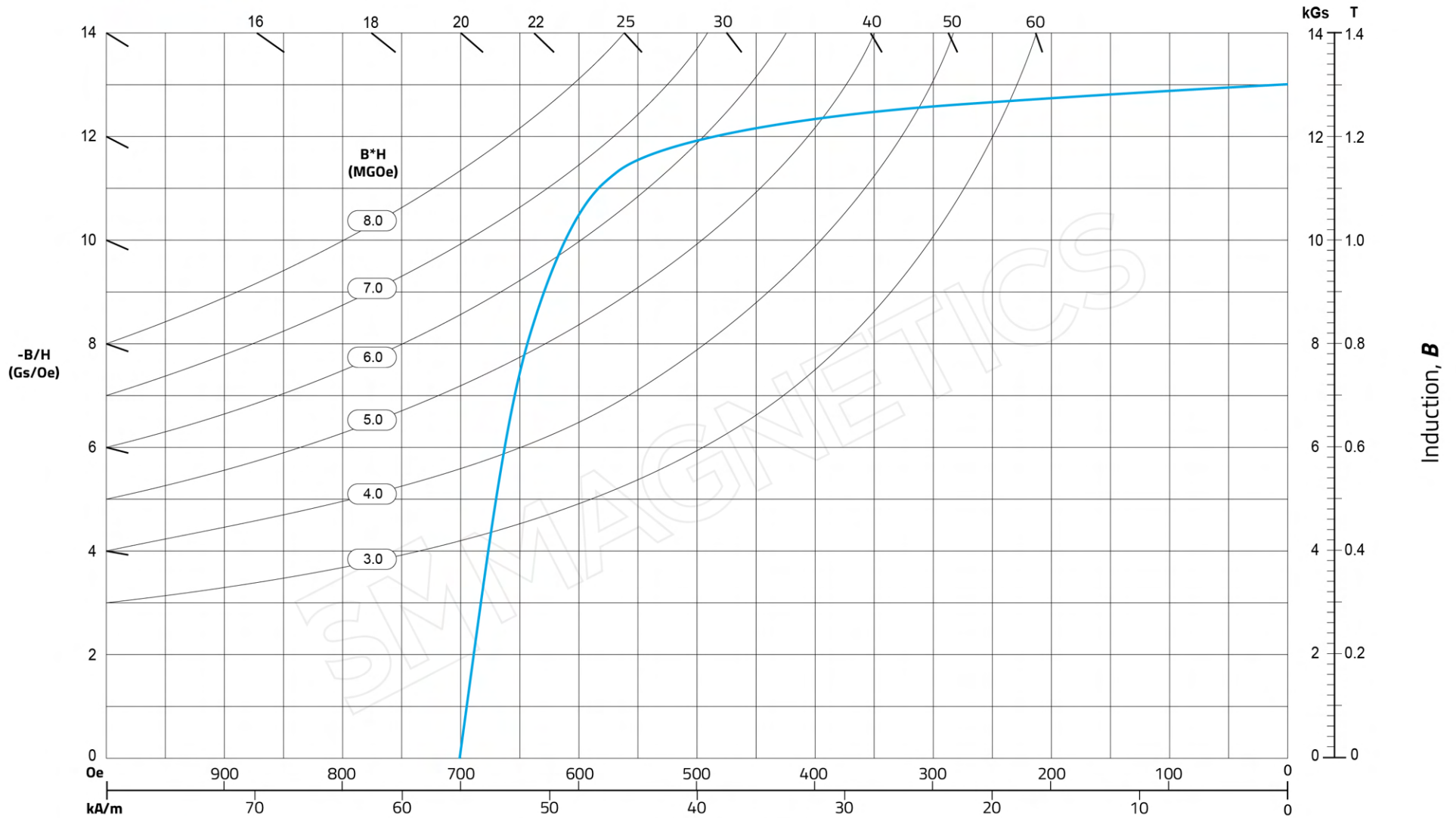
Magnetic Properties:
(20°C)

B_r (Remanence):
12.5 kGs 1.25T

H_{cB} (Normal Coercivity):
650 Oe 52 kA/m

$(BH)_{max}$ (Max Energy Product):
5.5 MGOe 44 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNGT28

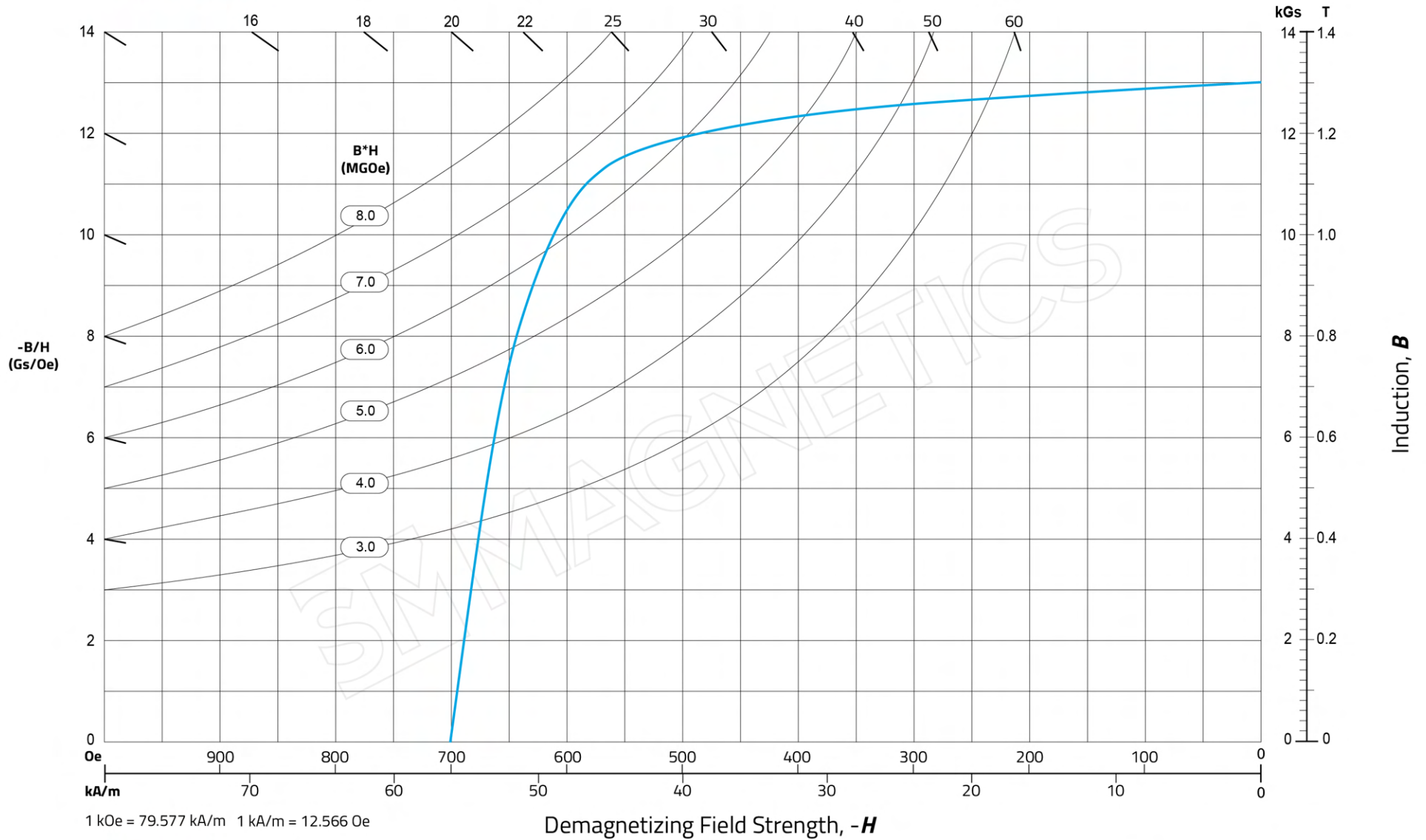
Magnetic Properties:
(20°C)

B_r (Remanence):
11.5 kGs 1.15T

H_{CB} (Normal Coercivity):
730 Oe 58 kA/m

$(BH)_{max}$ (Max Energy Product):
3.5 MGOe 28 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

LNG52

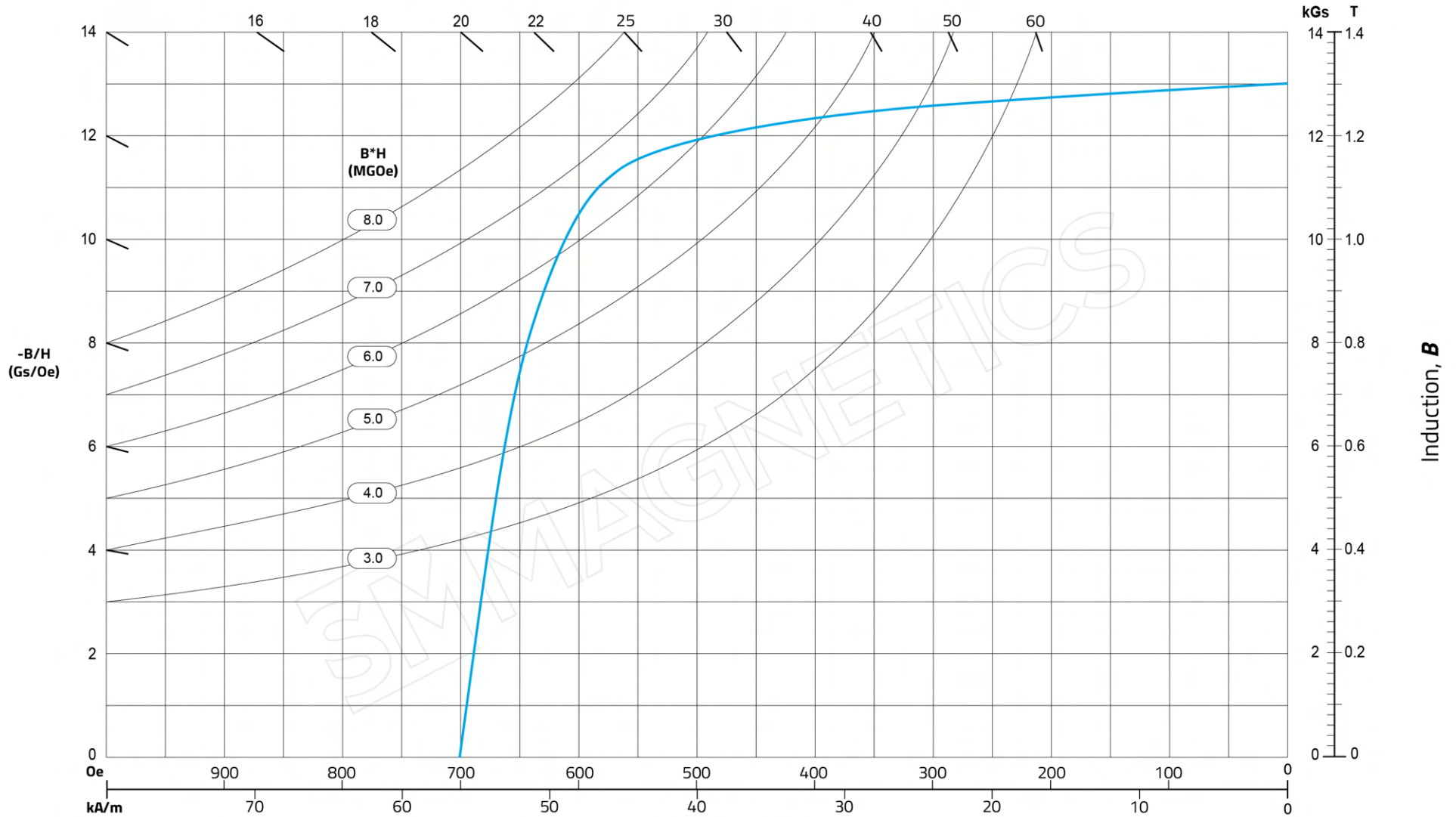
Magnetic Properties:
(20°C)

B_r (Remanence):
13 kGs 1.3T

H_{cB} (Normal Coercivity):
700 Oe 56 kA/m

$(BH)_{max}$ (Max Energy Product):
6.5 MGOe 52 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNG60

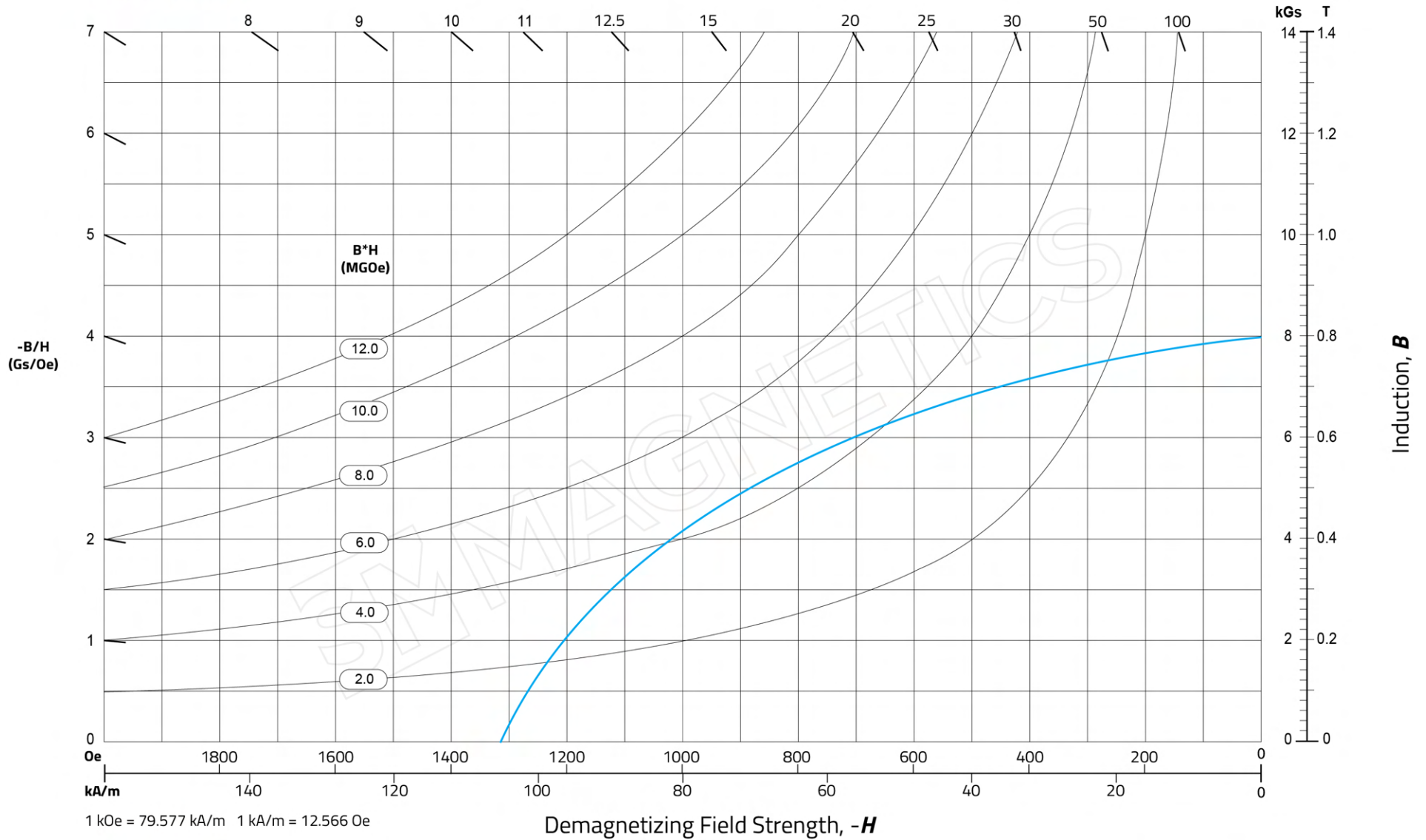
Magnetic Properties:
(20°C)

B_r (Remanence):
13.5 kGs 1.35T

H_{cB} (Normal Coercivity):
730 Oe 58 kA/m

$(BH)_{max}$ (Max Energy Product):
7.5 MGOe 60 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

LNGT34

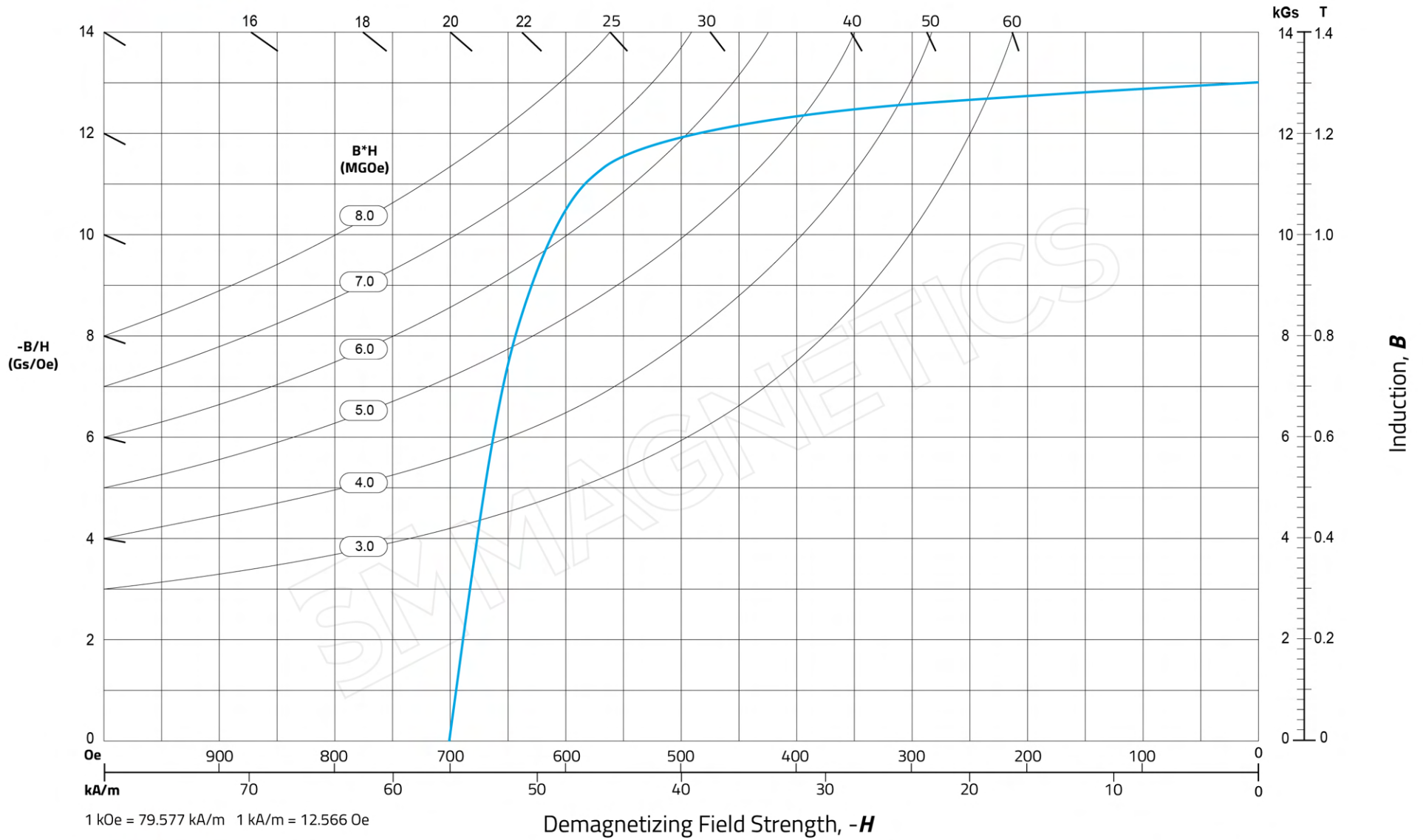
Magnetic Properties:
(20°C)

B_r (Remanence):
8 kGs 0.8T

H_{CB} (Normal Coercivity):
1310 Oe 104 kA/m

$(BH)_{max}$ (Max Energy Product):
4.25 MGoe 34 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

LNGT38

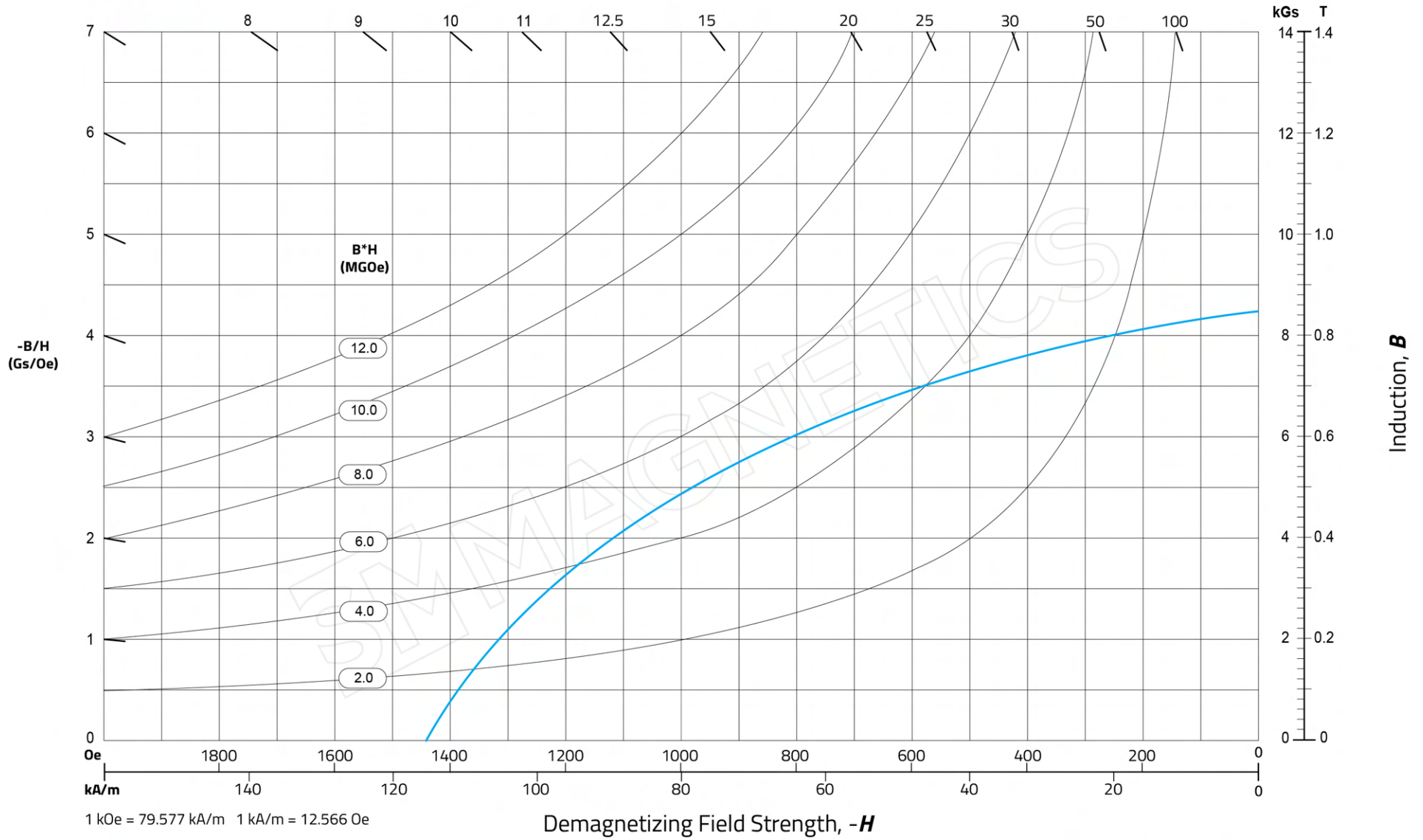
Magnetic Properties:
(20°C)

B_r (Remanence):
8 kGs 0.8T

H_{CB} (Normal Coercivity):
1380 Oe 110 kA/m

$(BH)_{max}$ (Max Energy Product):
4.75 MGOe 38 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

LNGT40

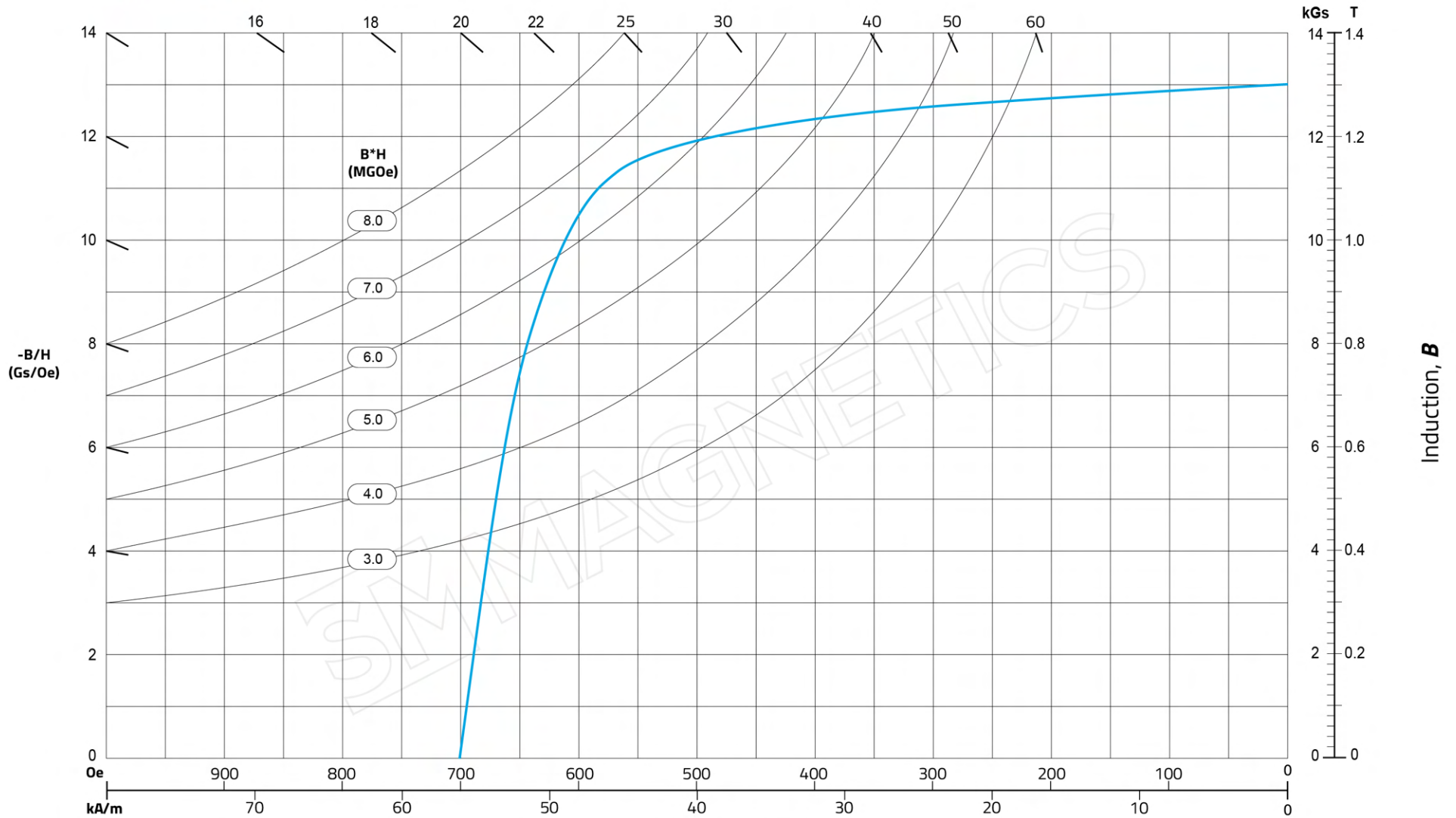
Magnetic Properties:
(20°C)

B_r (Remanence):
8.5 kGs 0.85T

H_{CB} (Normal Coercivity):
1440 Oe 115 kA/m

$(BH)_{max}$ (Max Energy Product):
5 MGOe 40 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNGT44

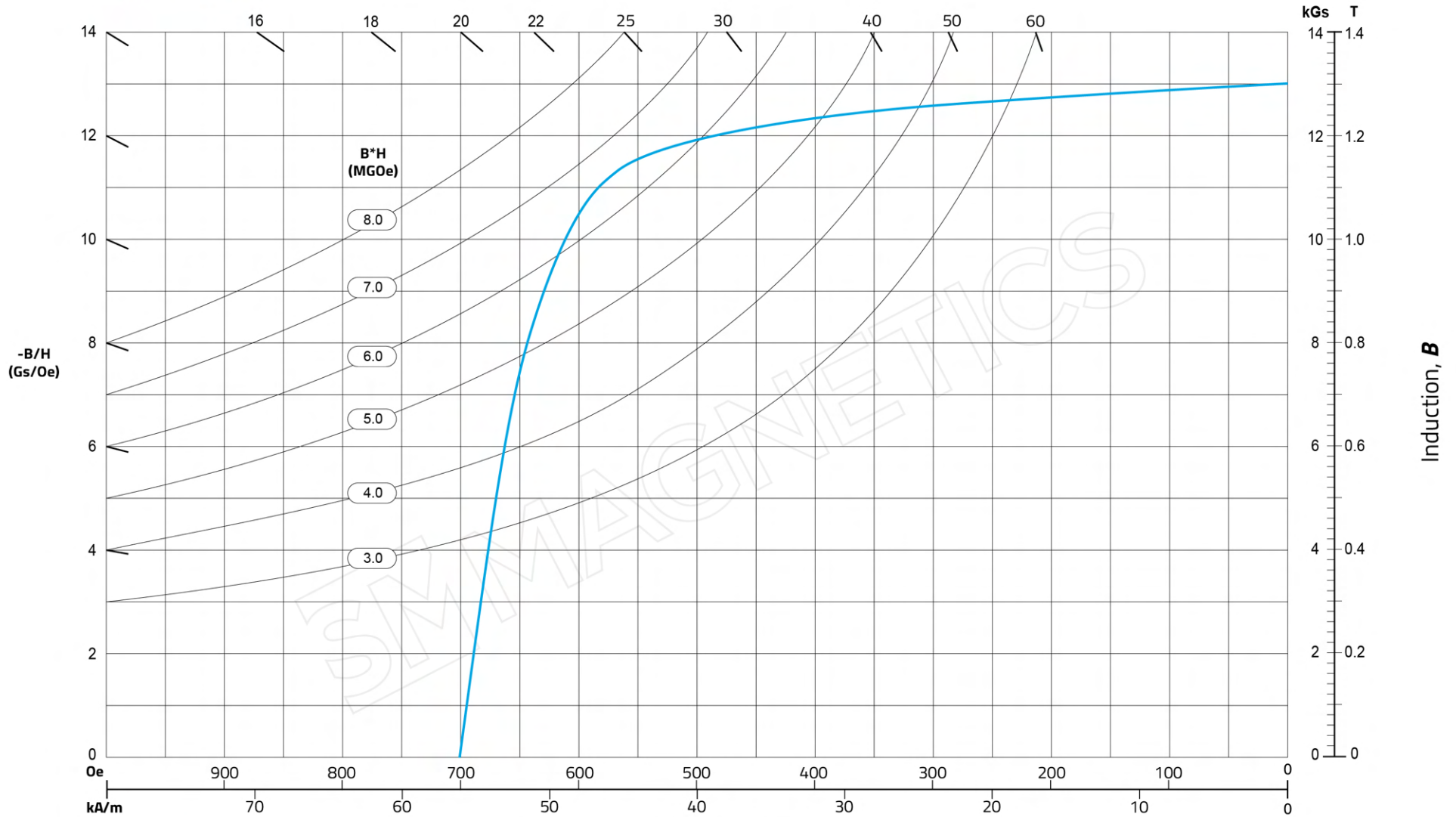
Magnetic Properties:
(20°C)

B_r (Remanence):
9 kGs 0.9T

H_{cB} (Normal Coercivity):
1440 Oe 115 kA/m

$(BH)_{max}$ (Max Energy Product):
5.5 MGOe 44 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNGT36J

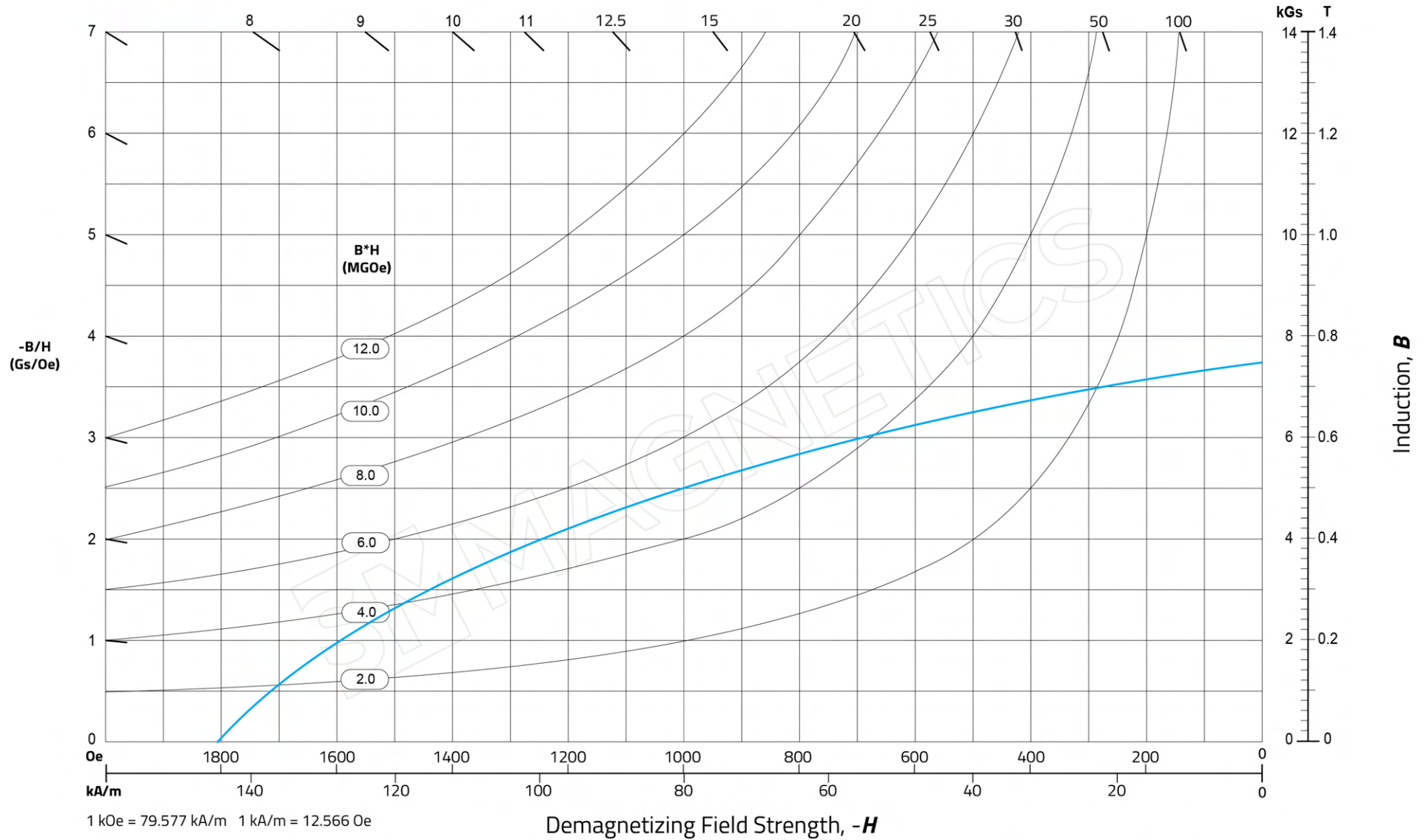
Magnetic Properties:
(20°C)

B_r (Remanence):
7.2 kGs 0.72T

H_{CB} (Normal Coercivity):
1880 Oe 150 kA/m

$(BH)_{max}$ (Max Energy Product):
4.5 MGOe 36 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

LNGT40J

Magnetic Properties:
(20°C)

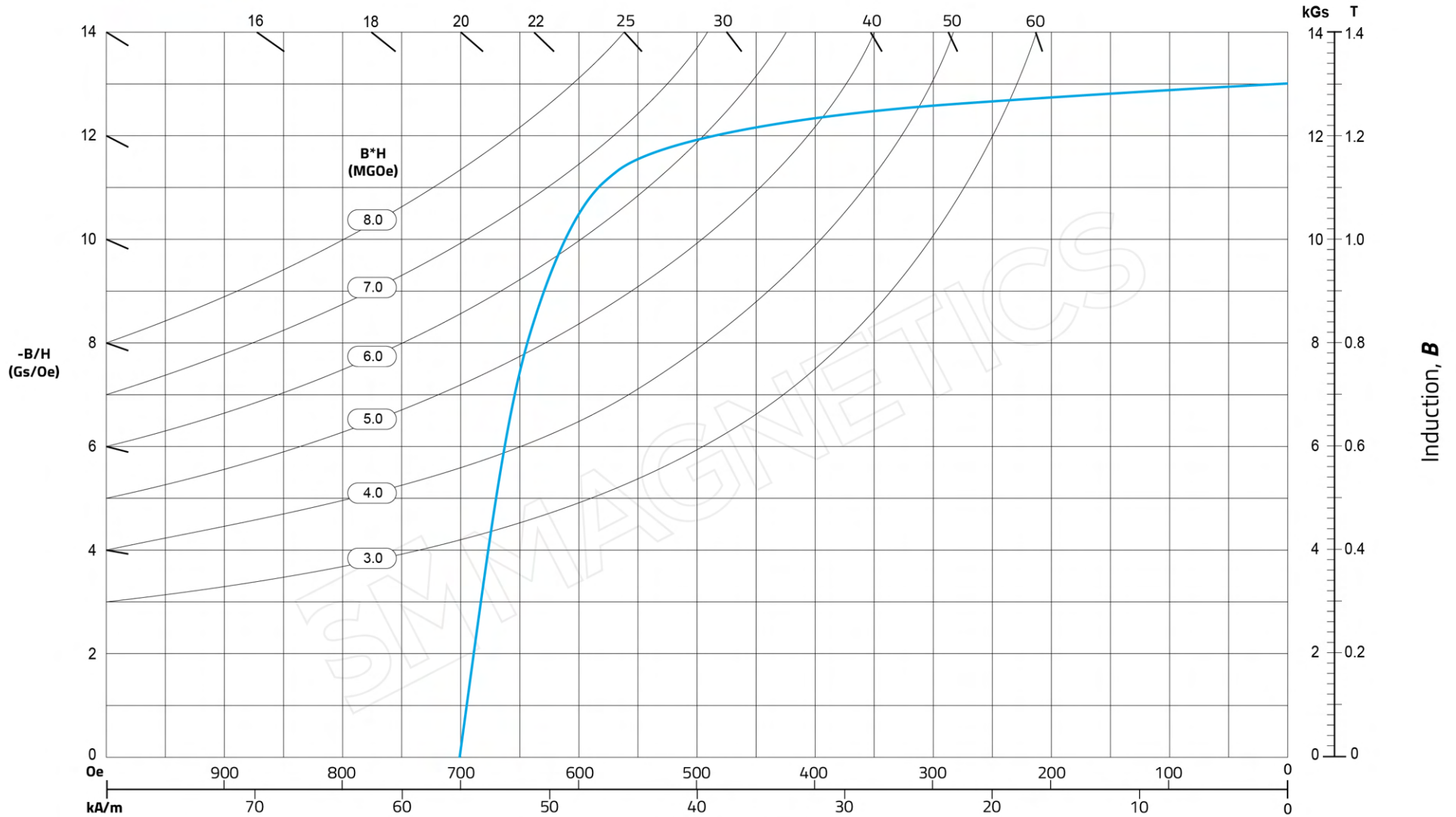
B_r (Remanence):
7.5 kGs 0.75T

H_{CB} (Normal Coercivity):
1.8 kOe 144 kA/m

H_{CI} (Intrinsic Coercivity):
2.0 kOe 159 kA/m

$(BH)_{max}$ (Max Energy Product):
5.0 MGOe 40 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNGT60

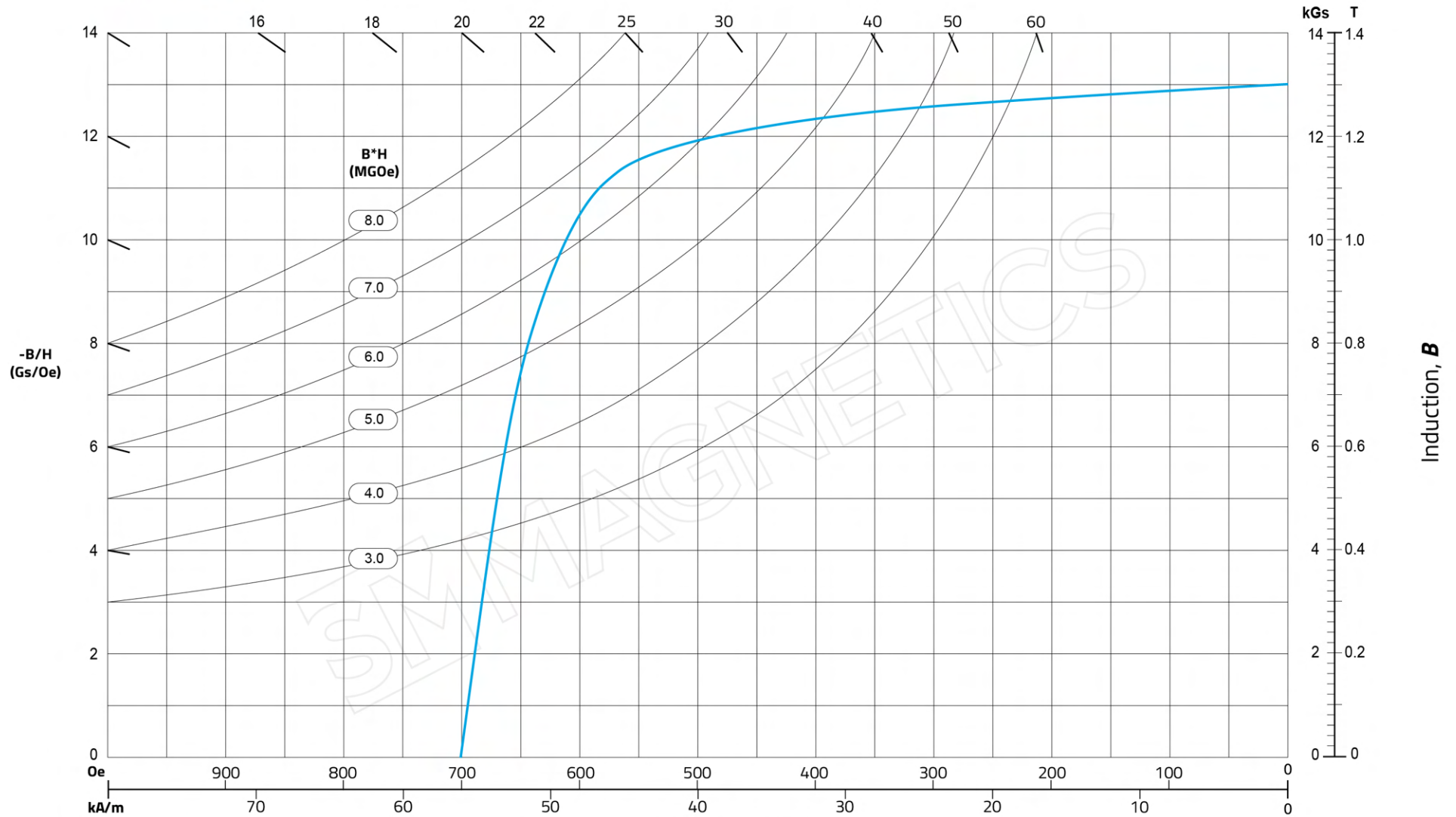
Magnetic Properties:
(20°C)

B_r (Remanence):
10 kGs 1T

H_{cB} (Normal Coercivity):
1380 Oe 110 kA/m

$(BH)_{max}$ (Max Energy Product):
7.5 MGOe 60 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

Demagnetizing Field Strength, $-H$

LNGT72

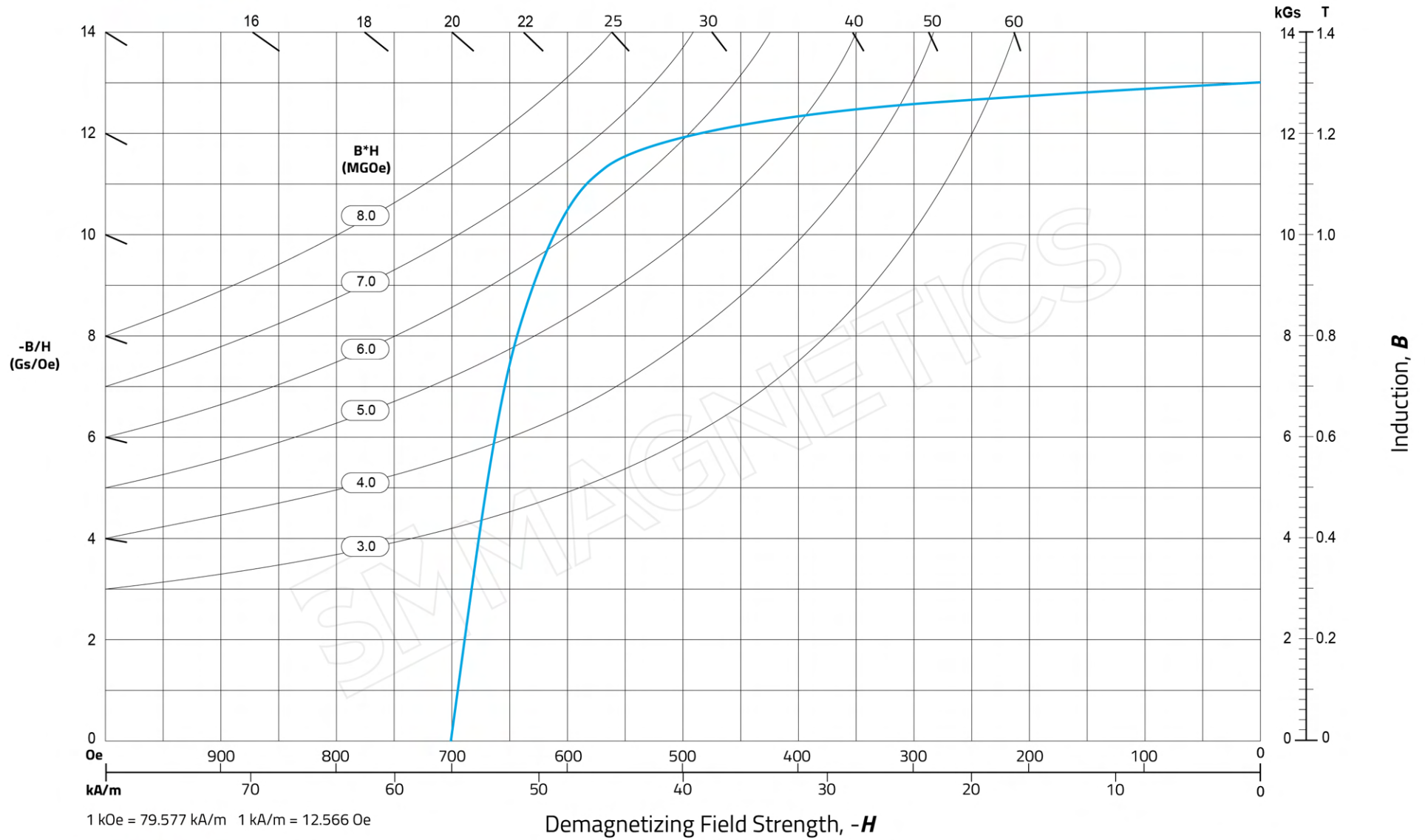
Magnetic Properties:
(20°C)

B_r (Remanence):
10.5 kGs 1.05T

H_{CB} (Normal Coercivity):
1440 Oe 115 kA/m

$(BH)_{max}$ (Max Energy Product):
9 MGOe 72 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

LNGT80

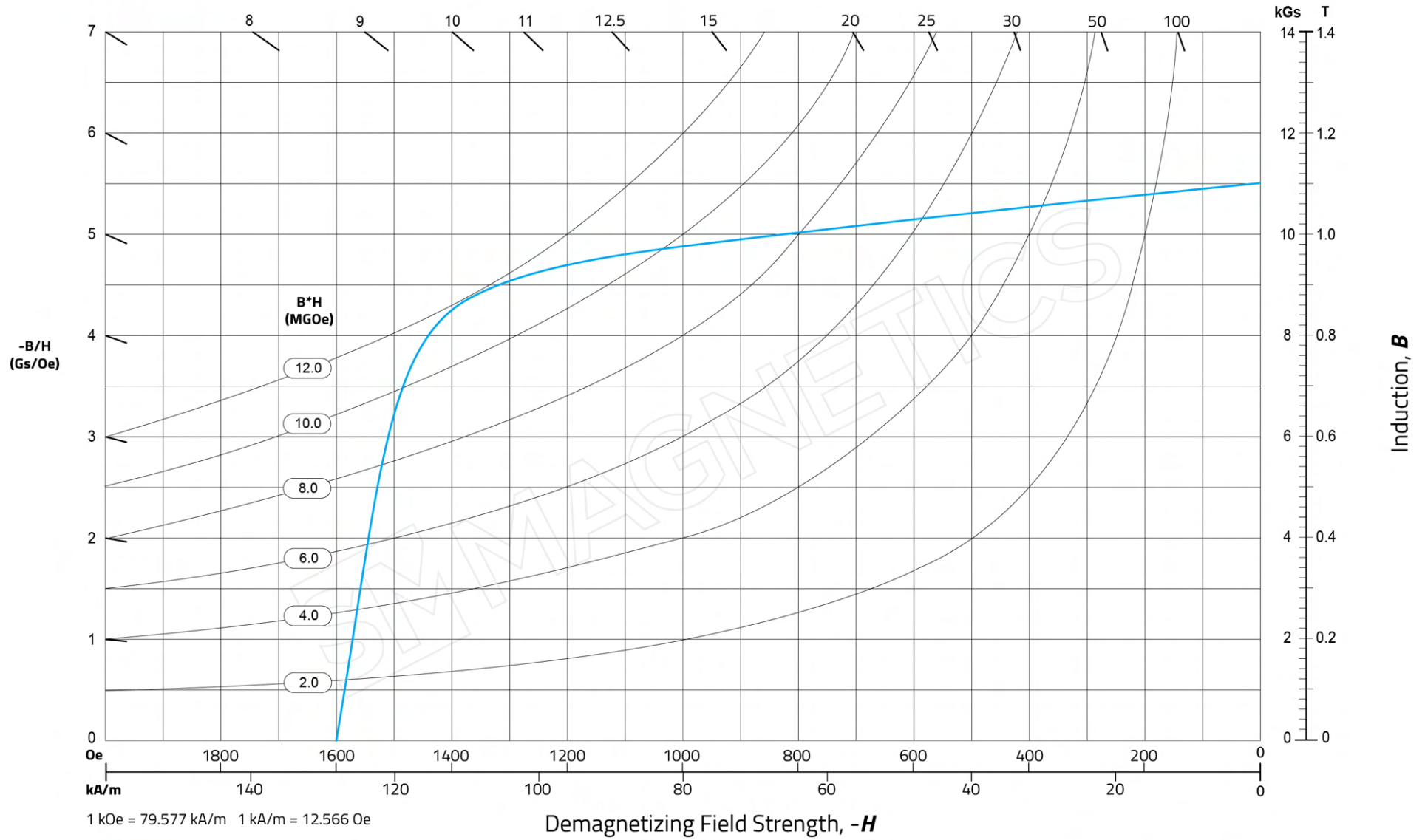
Magnetic Properties:
(20°C)

B_r (Remanence):
10.8 kGs 1.08T

H_{cB} (Normal Coercivity):
1500 Oe 120 kA/m

$(BH)_{max}$ (Max Energy Product):
10 MGOe 80 kJ/m³

Typical Demagnetization Curves for Cast Alnico



1 kOe = 79.577 kA/m 1 kA/m = 12.566 Oe

LNGT96

Magnetic Properties:
(20°C)

B_r (Remanence):
11.0 kGs 1.10T

H_{CB} (Normal Coercivity):
1600 Oe 127.8 kA/m

$(BH)_{max}$ (Max Energy Product):
12 MGOe 96 kJ/m³