

Nd-Fe-B



Grade	Maximum Energy Product	Residual Induction	Minimum Intrinsic Coercivity	Coercivity	Maximum Operating Temp	Curie Temp	Coefficient Induction [20-150 °C]	Coefficient Coercivity [20-150 °C]
	BH_{max}	B_r	H_{ci}	H_c	T_{mo}	T_c	α	β
	MGOe	kG	kOe	kOe	°C	°C	% / °C	% / °C
N5211	52	14.5	11	10.6	50	310	-0.12	-0.65
N5011	50	14.3	11	10.6	50	310	-0.12	-0.63
N4811	48	13.9	11	10.6	50	310	-0.12	-0.63
N4511	45	13.6	11	10.5	50	310	-0.12	-0.63
N4812	48	14.0	12	11.4	80	310	-0.12	-0.63
N4512	45	13.5	12	11.3	80	310	-0.12	-0.63
N4212	42	13.0	12	11.2	80	310	-0.12	-0.63
N4012	40	12.8	12	11.1	80	310	-0.12	-0.63
N3812	38	12.4	12	10.9	80	310	-0.12	-0.63
N3512	35	12.0	12	10.8	80	310	-0.12	-0.63
N5014	50	14.2	14	12.6	80	310	-0.12	-0.63
N4814	48	13.9	14	12.4	80	310	-0.12	-0.63
N4514	45	13.6	14	12.3	80	310	-0.12	-0.63
N4214	42	13.1	14	12.1	80	310	-0.12	-0.63
N4014	40	12.8	14	11.8	80	310	-0.12	-0.63
N3814	38	12.4	14	11.5	80	310	-0.12	-0.63
N3514	35	12.0	14	11.3	80	310	-0.12	-0.63
N3314	33	11.6	14	10.9	80	310	-0.12	-0.63
N4816	48	13.8	16	12.9	100	320	-0.11	-0.61
N4516	45	13.7	16	12.8	100	320	-0.11	-0.61
N4216	42	13.1	16	12.4	100	320	-0.11	-0.61
N3616	36	12.2	16	11.6	100	320	-0.11	-0.61
N3116	31	11.4	16	10.9	100	320	-0.11	-0.61
N4517	45	13.4	17	12.7	120	320	-0.11	-0.60
N4217	42	13.0	17	12.4	120	320	-0.11	-0.60
N4017	40	12.8	17	12.3	120	320	-0.11	-0.60
N3817	38	12.4	17	11.9	120	320	-0.11	-0.60
N3517	35	12.0	17	11.5	120	320	-0.11	-0.60
N3317	33	11.6	17	11.2	120	320	-0.11	-0.60
N3017	30	11.0	17	10.6	120	320	-0.11	-0.60
N2717	27	10.4	17	10.1	120	320	-0.11	-0.60
N4520	45	13.5	20	13.0	150	330	-0.11	-0.58
N4220	42	13.0	20	12.5	150	330	-0.11	-0.58
N4020	40	12.8	20	12.4	150	330	-0.11	-0.58
N3820	38	12.4	20	12.0	150	330	-0.11	-0.58
N3520	35	12.0	20	11.6	150	330	-0.11	-0.58
N3320	33	11.6	20	11.3	150	330	-0.11	-0.58
N3020	30	11.1	20	10.8	150	330	-0.11	-0.58
N2720	27	10.4	20	10.1	150	330	-0.11	-0.58
N4221	42	13.0	21	12.5	150	330	-0.11	-0.55
N4021	40	12.8	21	12.4	150	330	-0.11	-0.55
N3821	38	12.6	21	12.3	150	330	-0.11	-0.55

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	BH_{max}	B_r	H_{ci}	H_c	T_{mo}	T_c	α	β
	MGOe	kG	kOe	kOe	°C	°C	% / °C	% / °C
N3521	35	11.9	21	11.5	150	330	-0.11	-0.55
N3021	30	11.1	21	10.8	150	330	-0.11	-0.55
N4025	40	12.6	25	12.2	180	340	-0.10	-0.55
N3825	38	12.5	25	12.2	180	340	-0.10	-0.55
N3525	35	12.0	25	11.6	180	340	-0.10	-0.55
N3325	33	11.6	25	11.3	180	340	-0.10	-0.55
N3025	30	11.1	25	10.8	180	340	-0.10	-0.55
N2825	28	10.6	25	10.4	180	340	-0.10	-0.55
N3828	38	12.5	28	12.2	190	340	-0.10	-0.55
N3328	33	11.7	28	11.4	200	340	-0.10	-0.55
N3830	38	12.5	30	12.2	200	360	-0.08	-0.55
N3530	35	12.0	30	11.7	200	360	-0.08	-0.55
N3330	33	11.6	30	11.4	200	360	-0.08	-0.55
N3030	30	11.0	30	10.7	200	360	-0.08	-0.55
N2830	28	10.7	30	10.5	200	360	-0.08	-0.55
N3333	33	11.9	33	11.5	220	370	-0.10	-0.45
N3033	30	11.4	33	11.1	220	370	-0.09	-0.45
N2833	28	10.9	33	10.5	225	370	-0.09	-0.45
N3235	32	11.3	35	11.0	180	340	-0.10	-0.42

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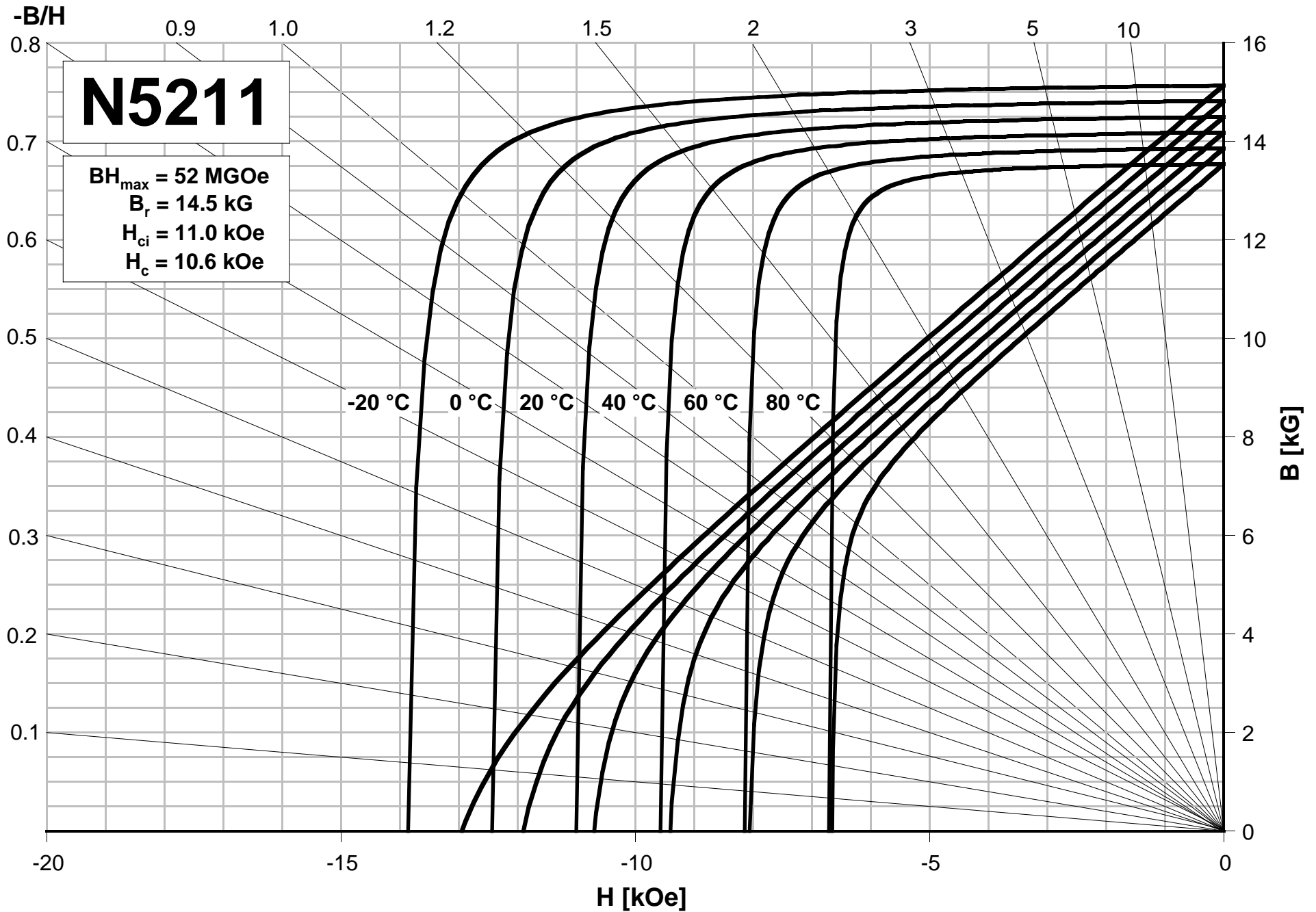
Typical Physical Properties	
Curie Temperature	320 – 380 °C
Coefficient of Thermal Expansion - Perpendicular	-1.0 – -3.0 x 10 ⁻⁶ °C ⁻¹
Coefficient of Thermal Expansion - Parallel	+5.0 – +8.0 x 10 ⁻⁶ °C ⁻¹
Electrical Resistivity	120 – 160 μΩ·cm
Density	7.4 – 7.8 g·cm ⁻³
Vicker's Hardness	550 – 650 H _v
Young's Modulus	150 – 170 kN·mm ⁻²
Bending Strength	0.18 – 0.29 kN·mm ⁻²
Compressive Strength	0.8 – 1.0 kN·mm ⁻²

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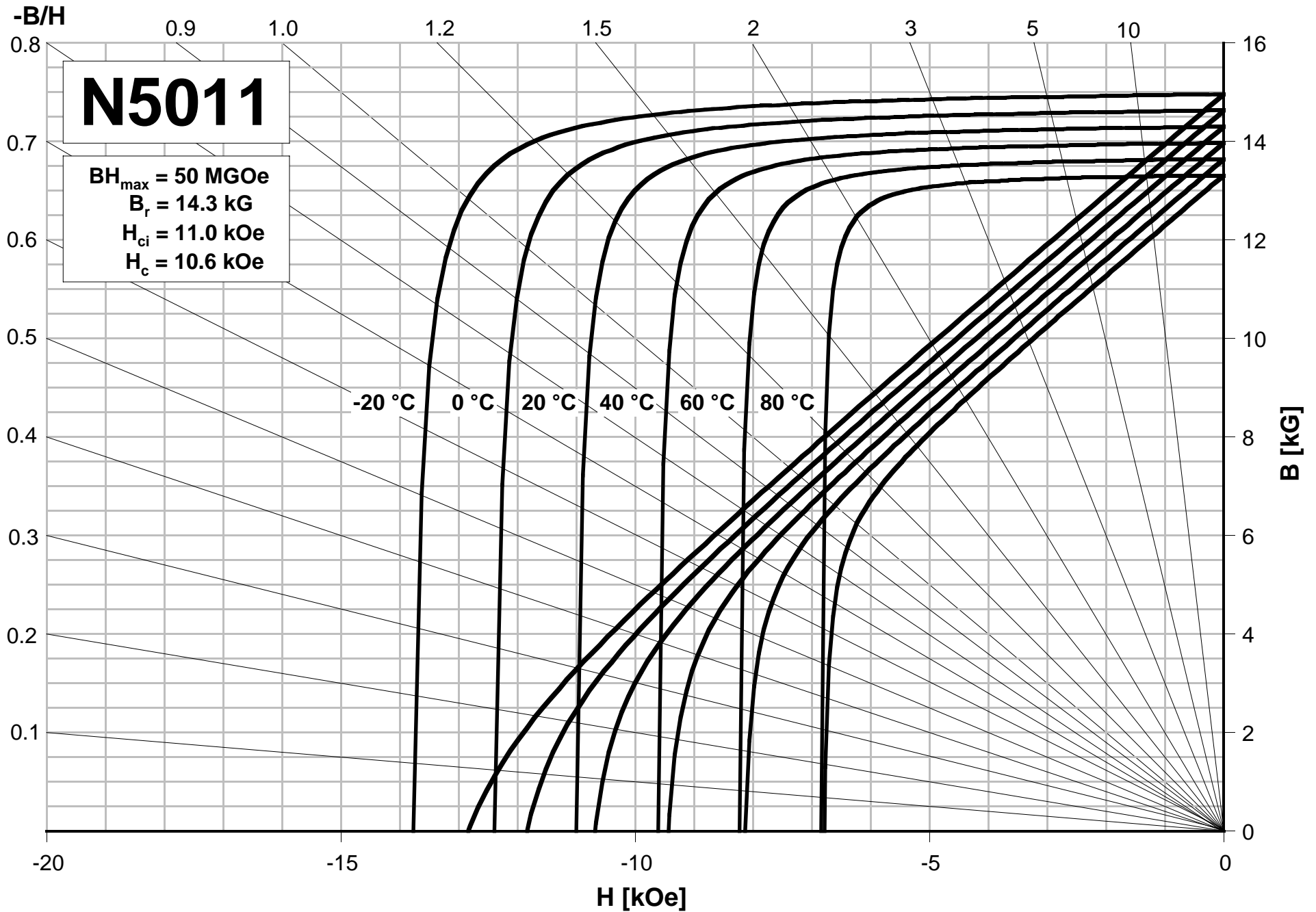
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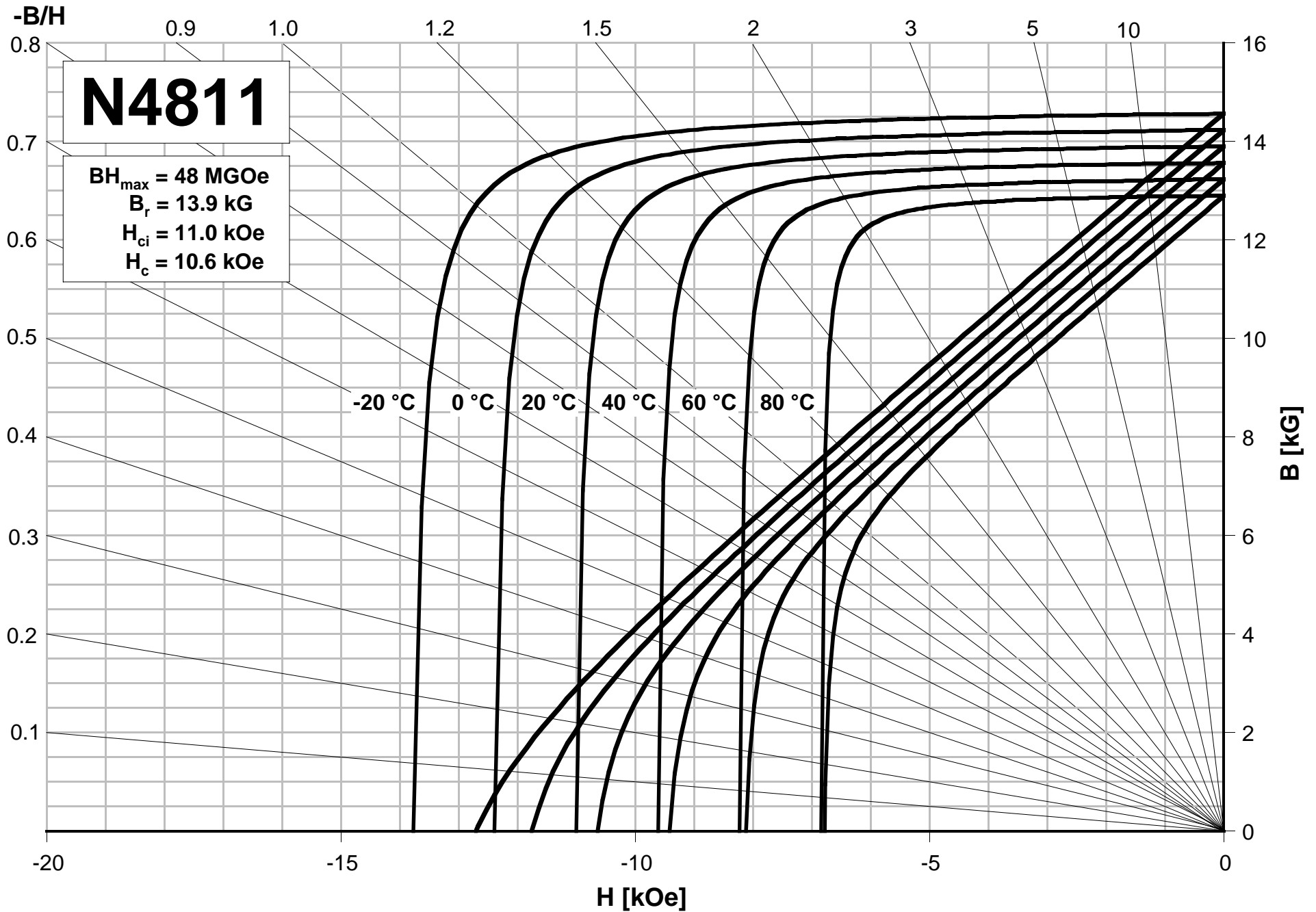
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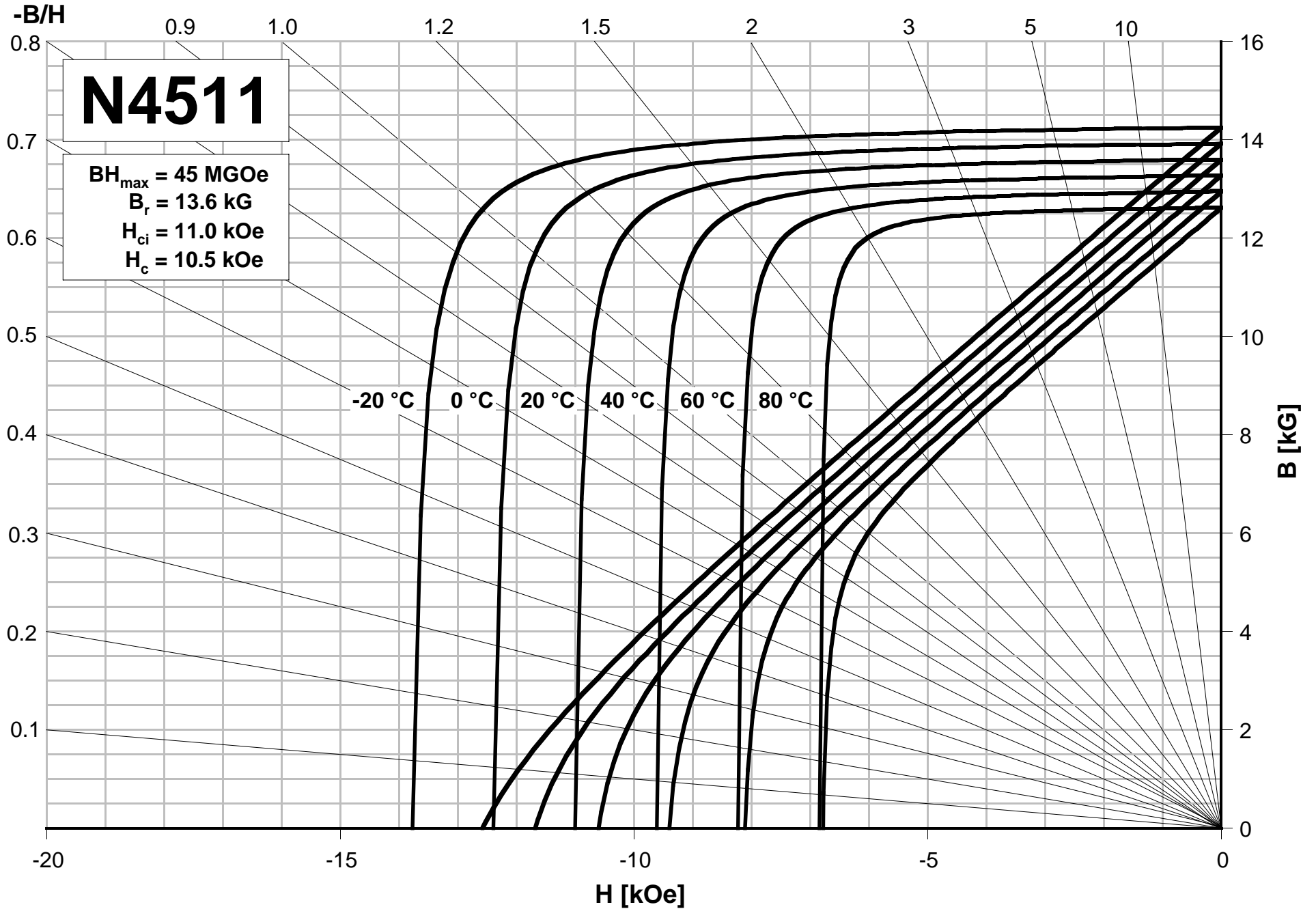
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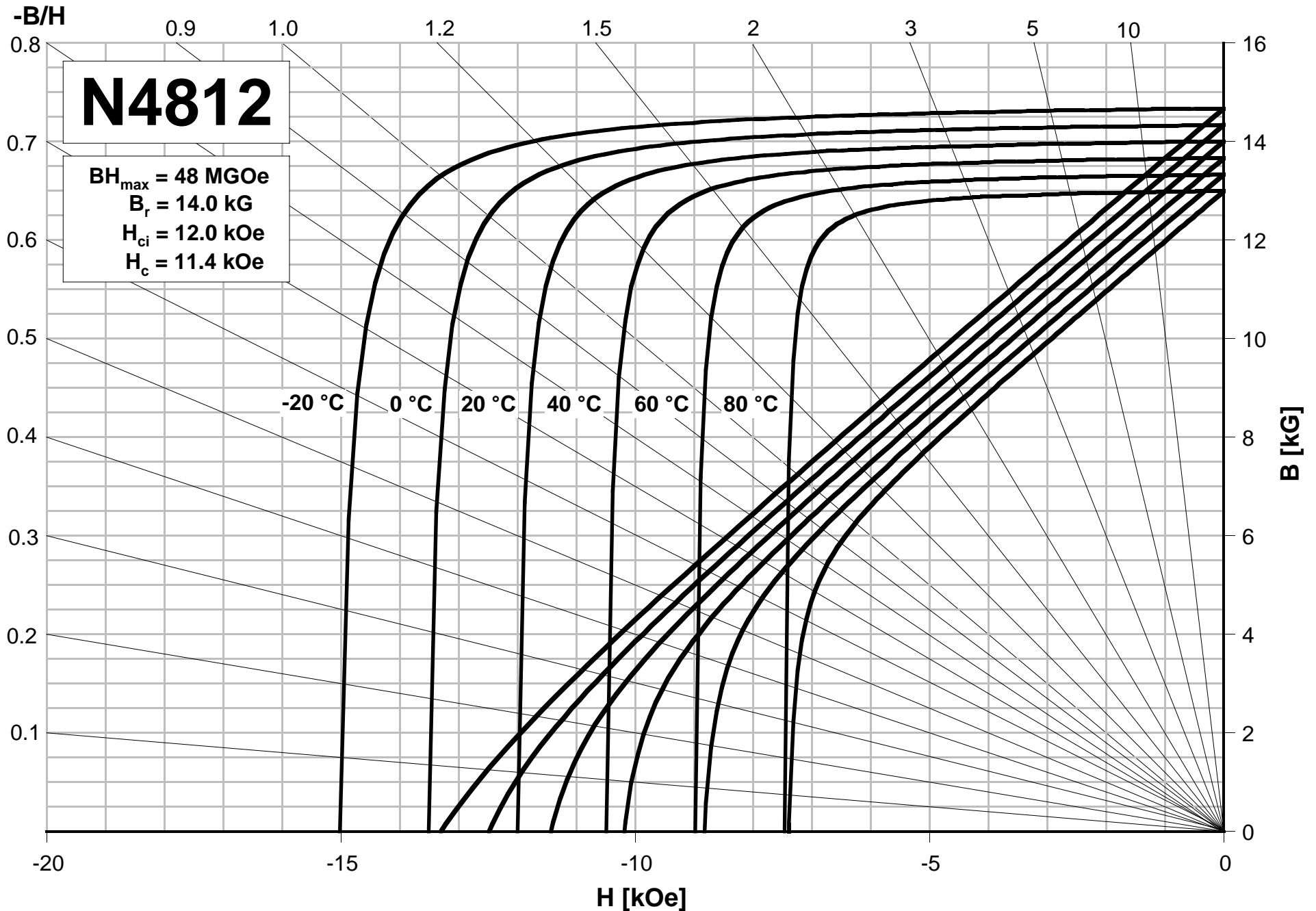
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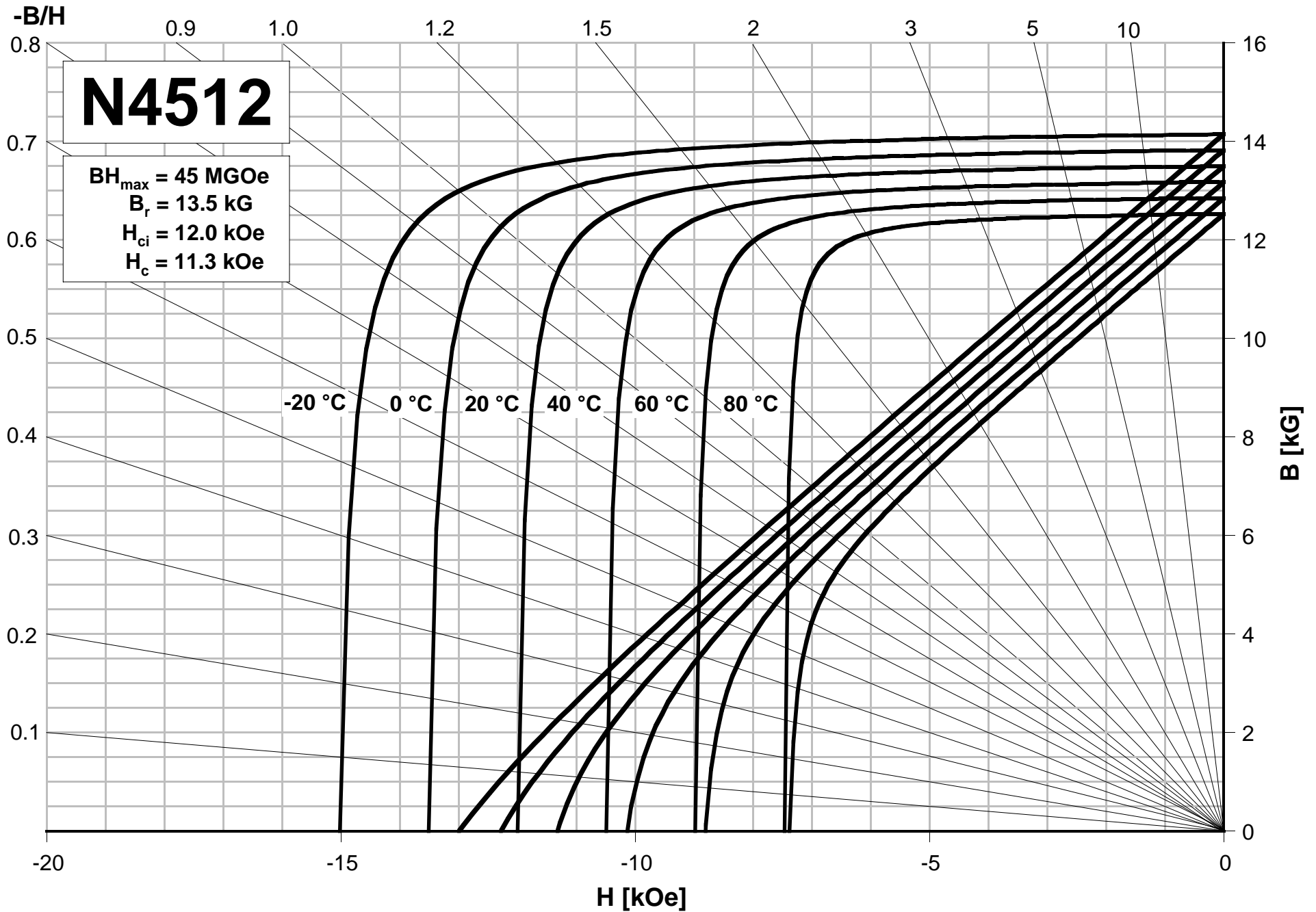
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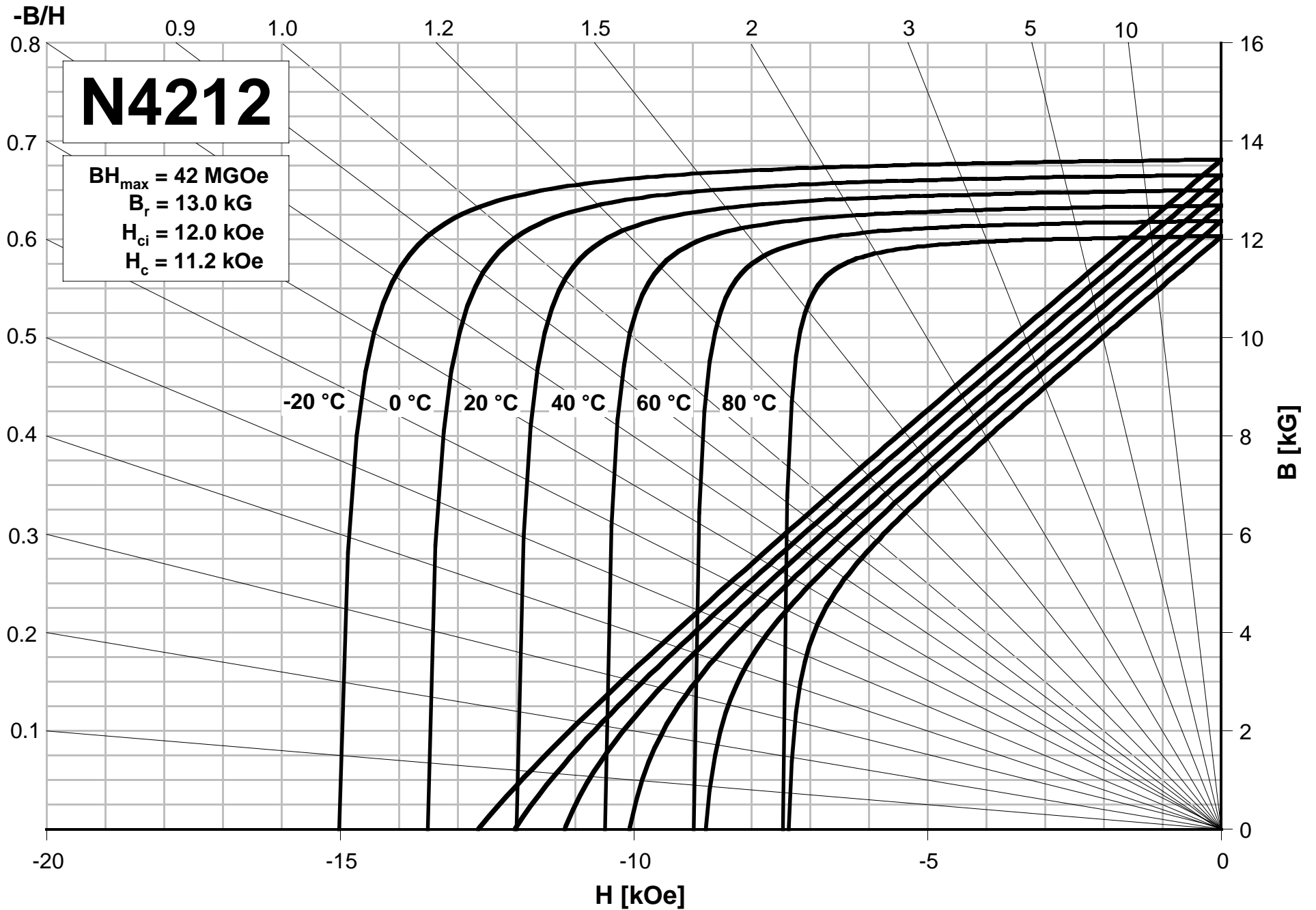
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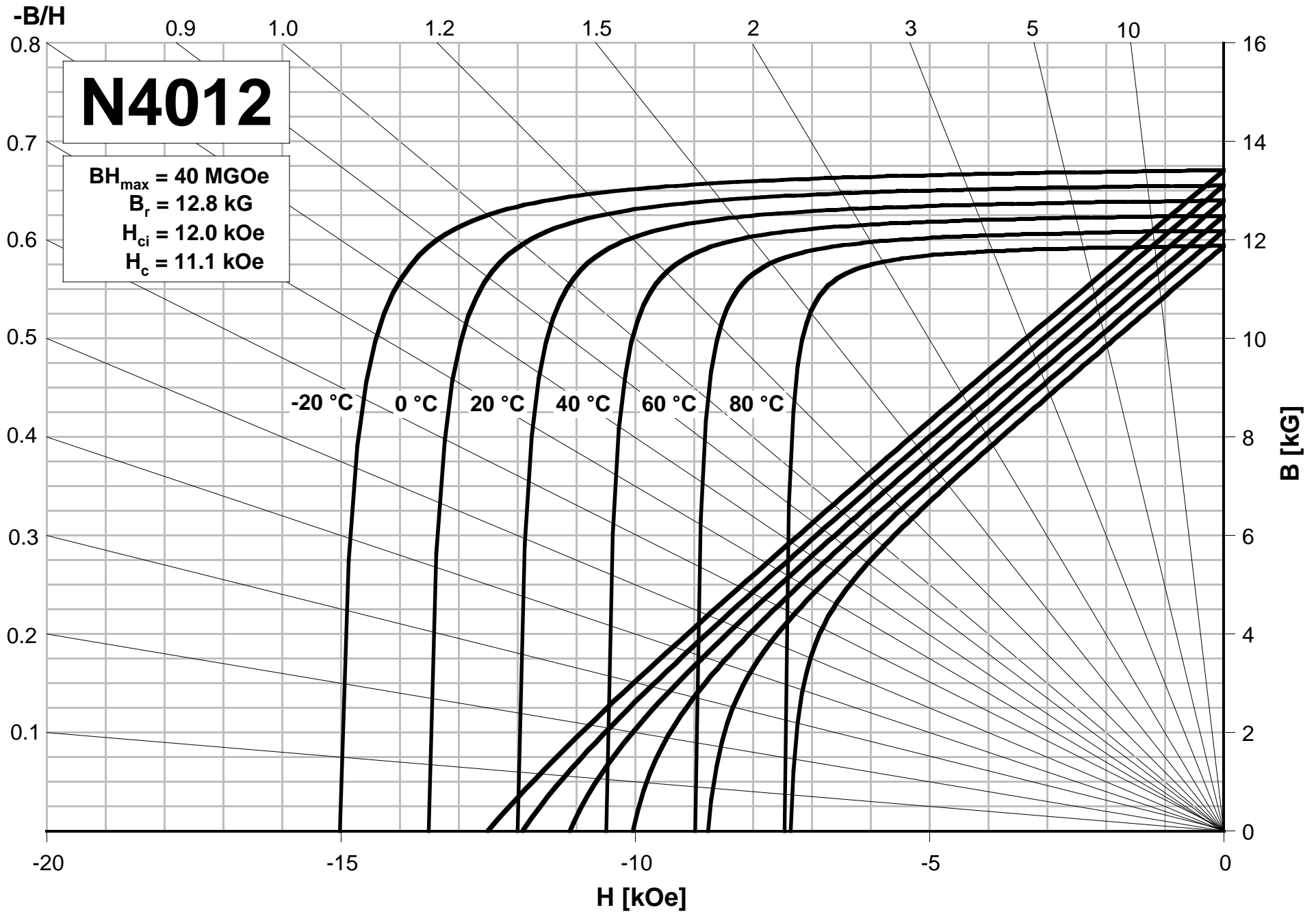
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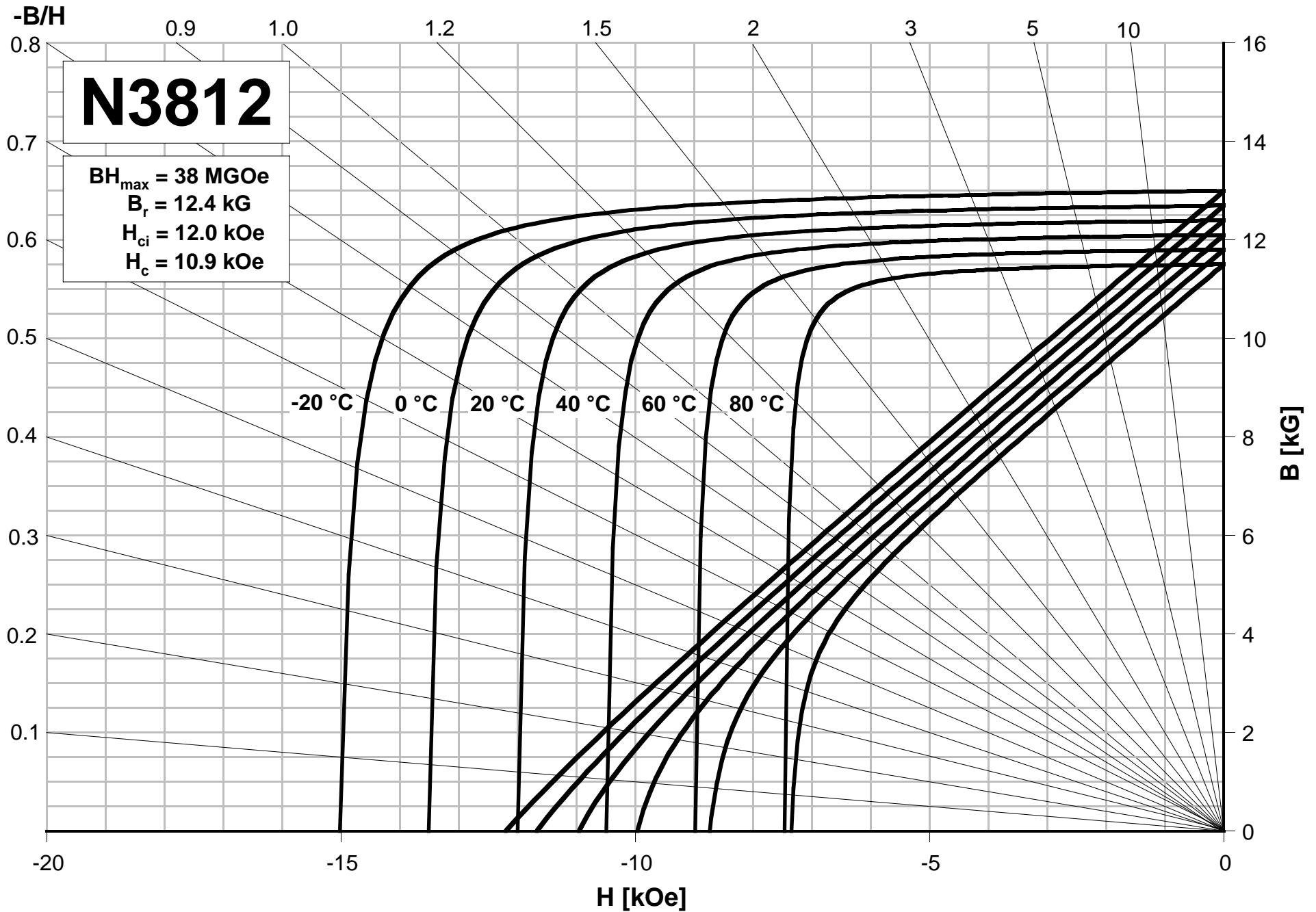
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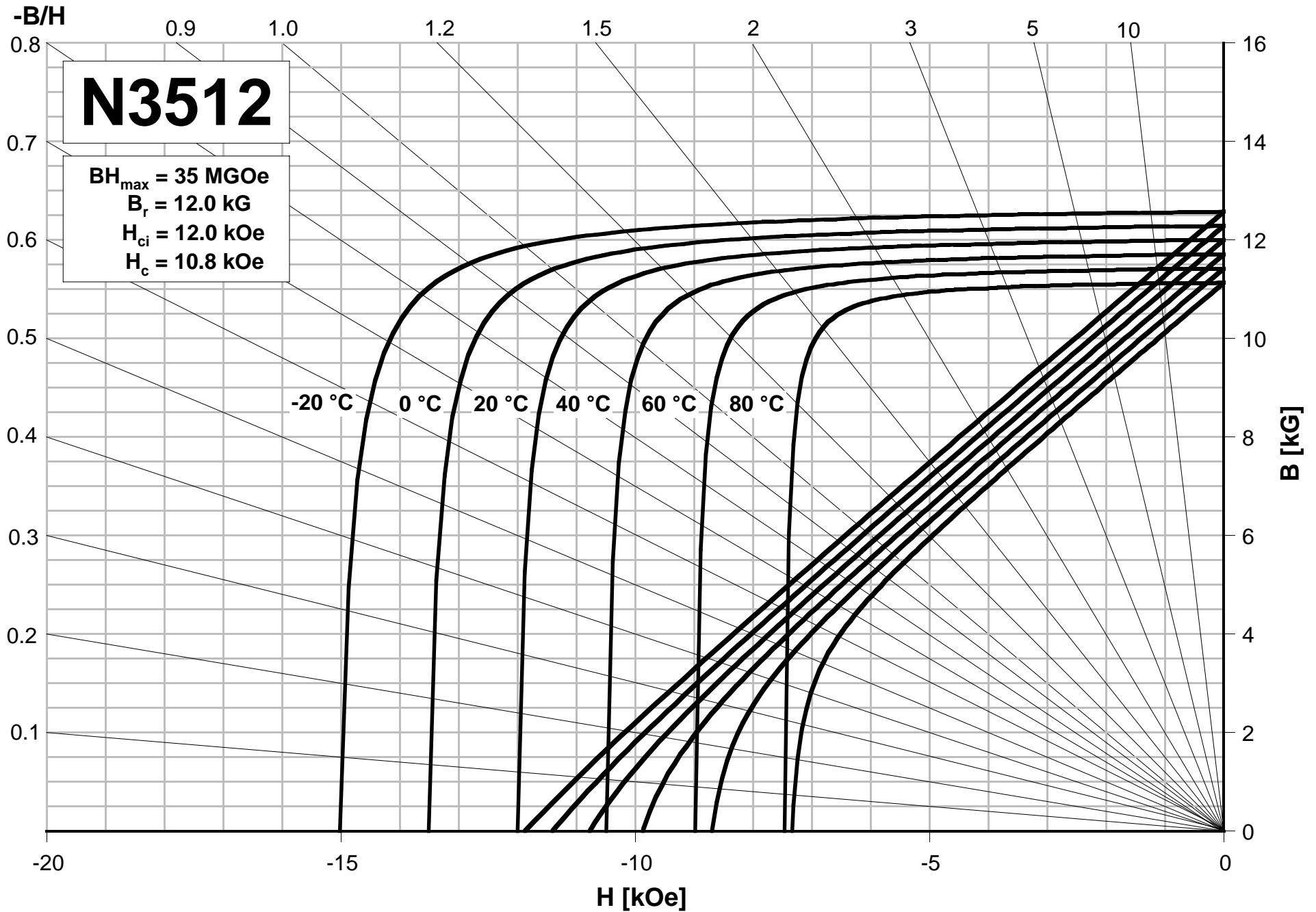
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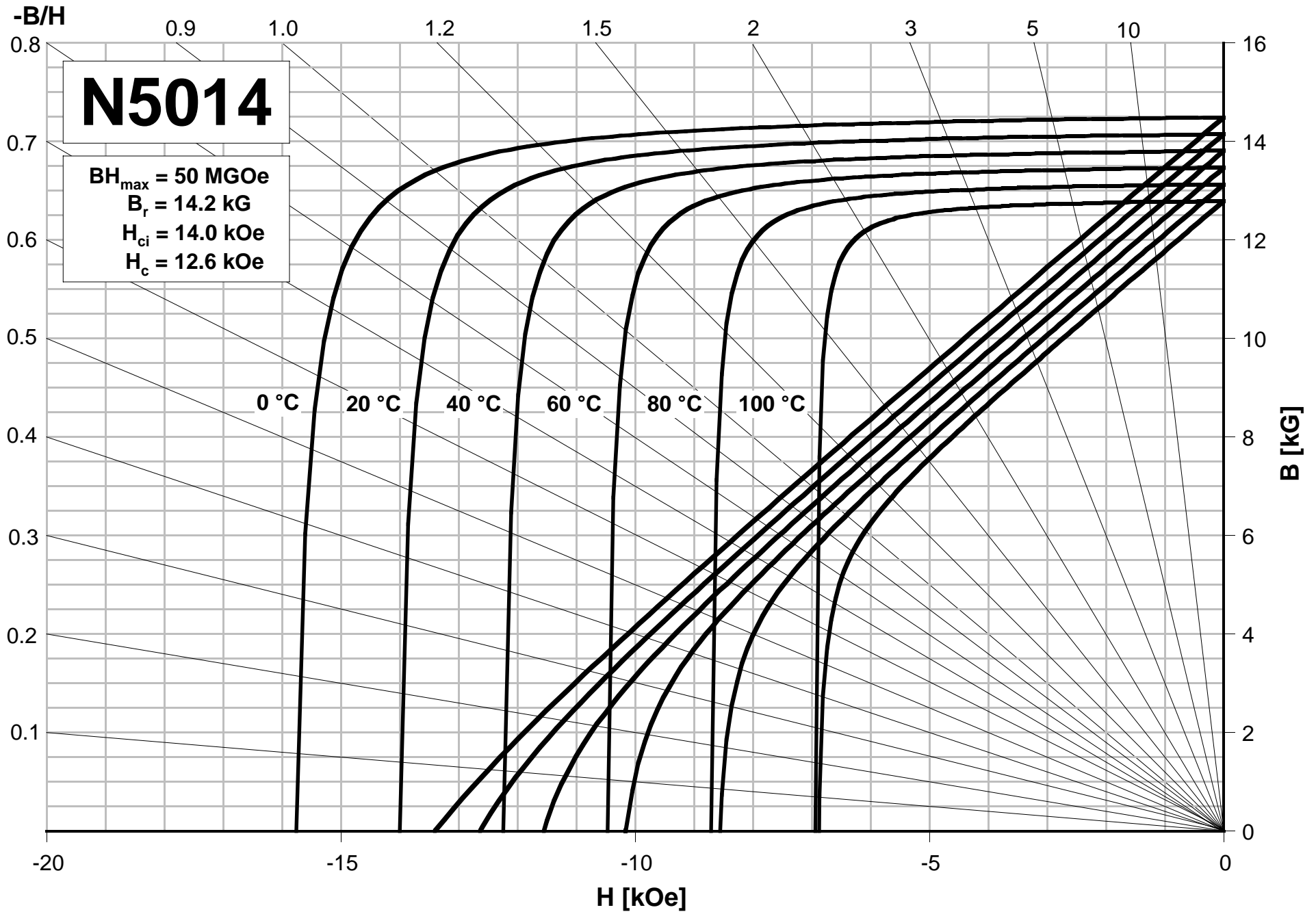
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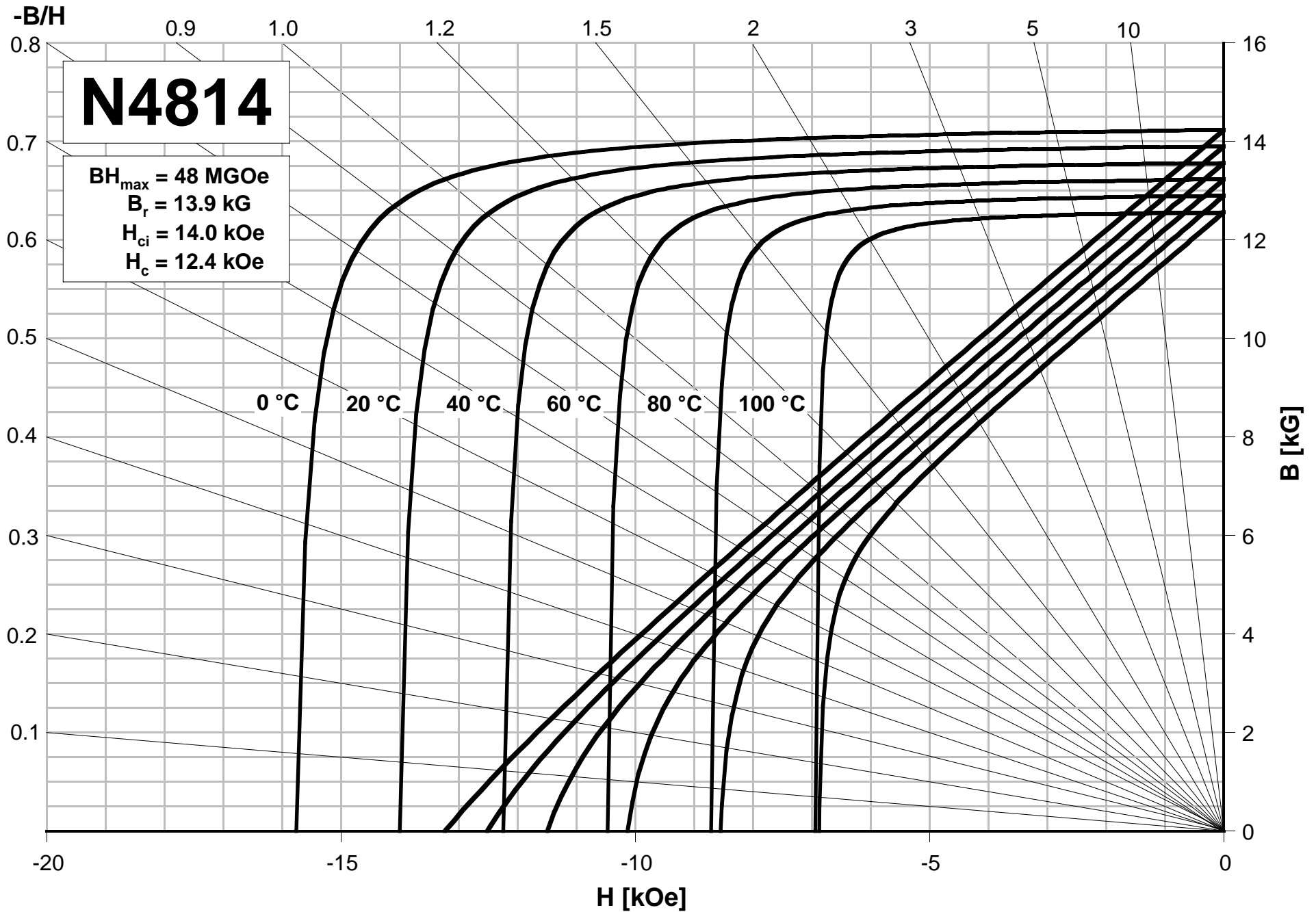
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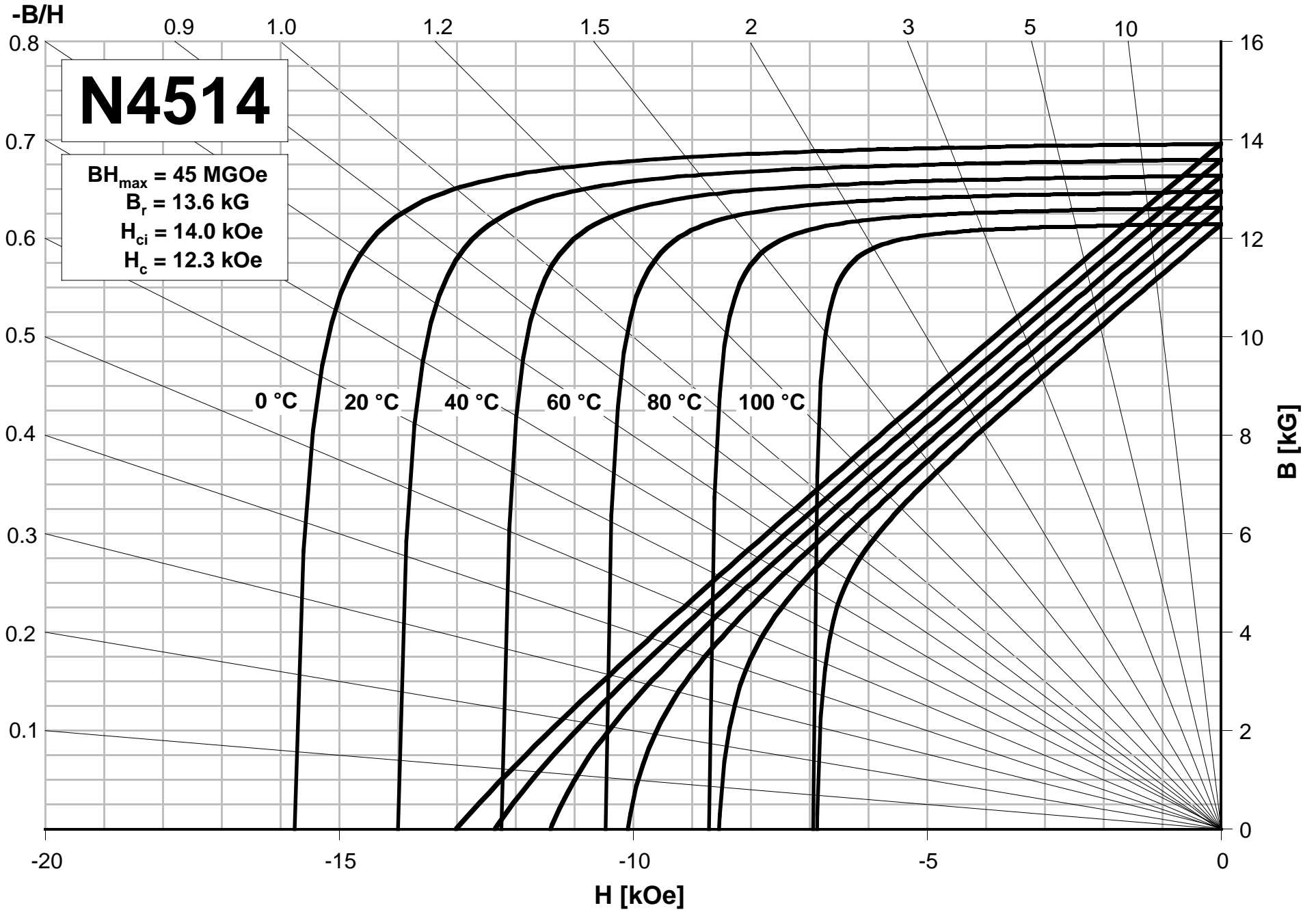
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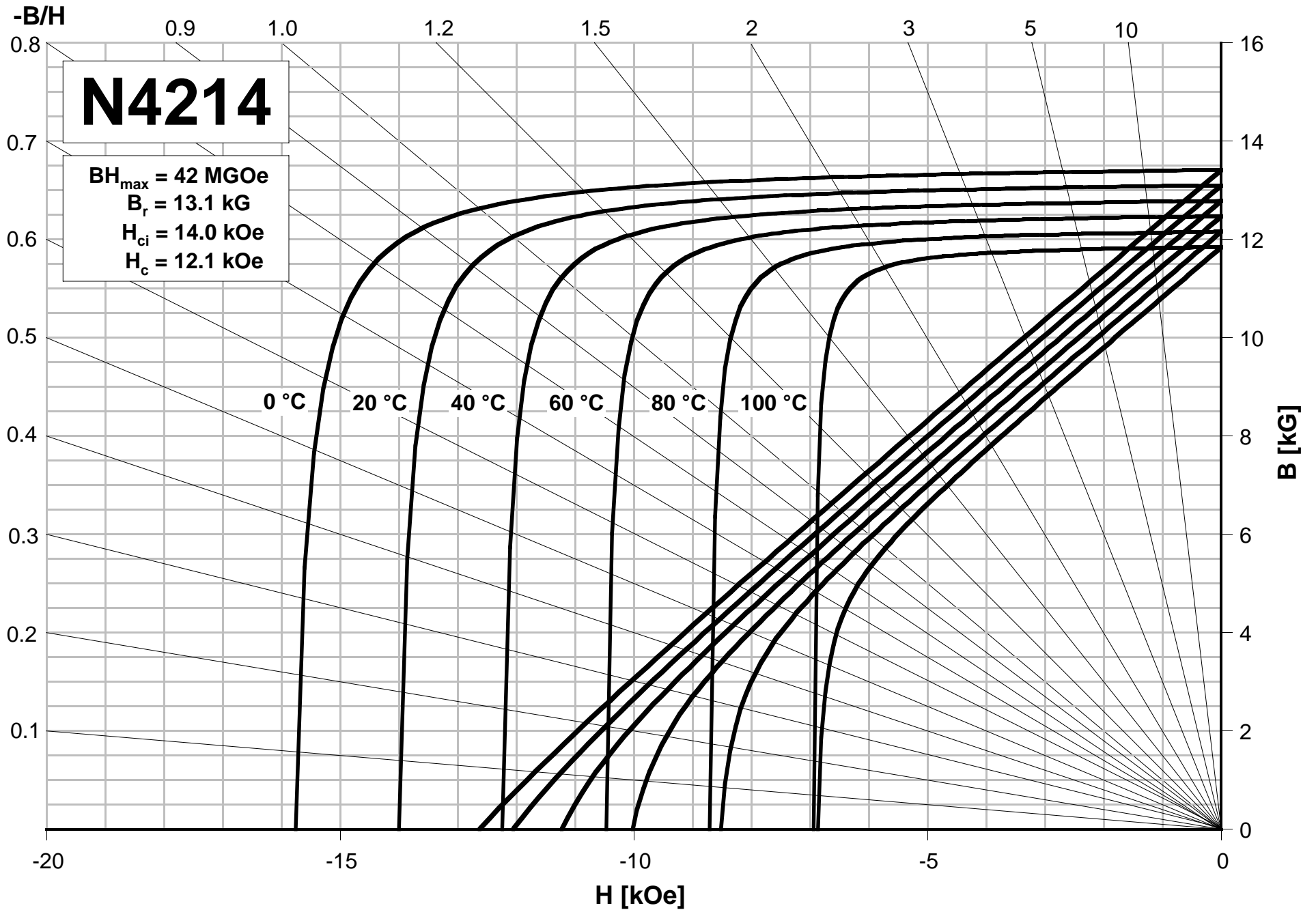
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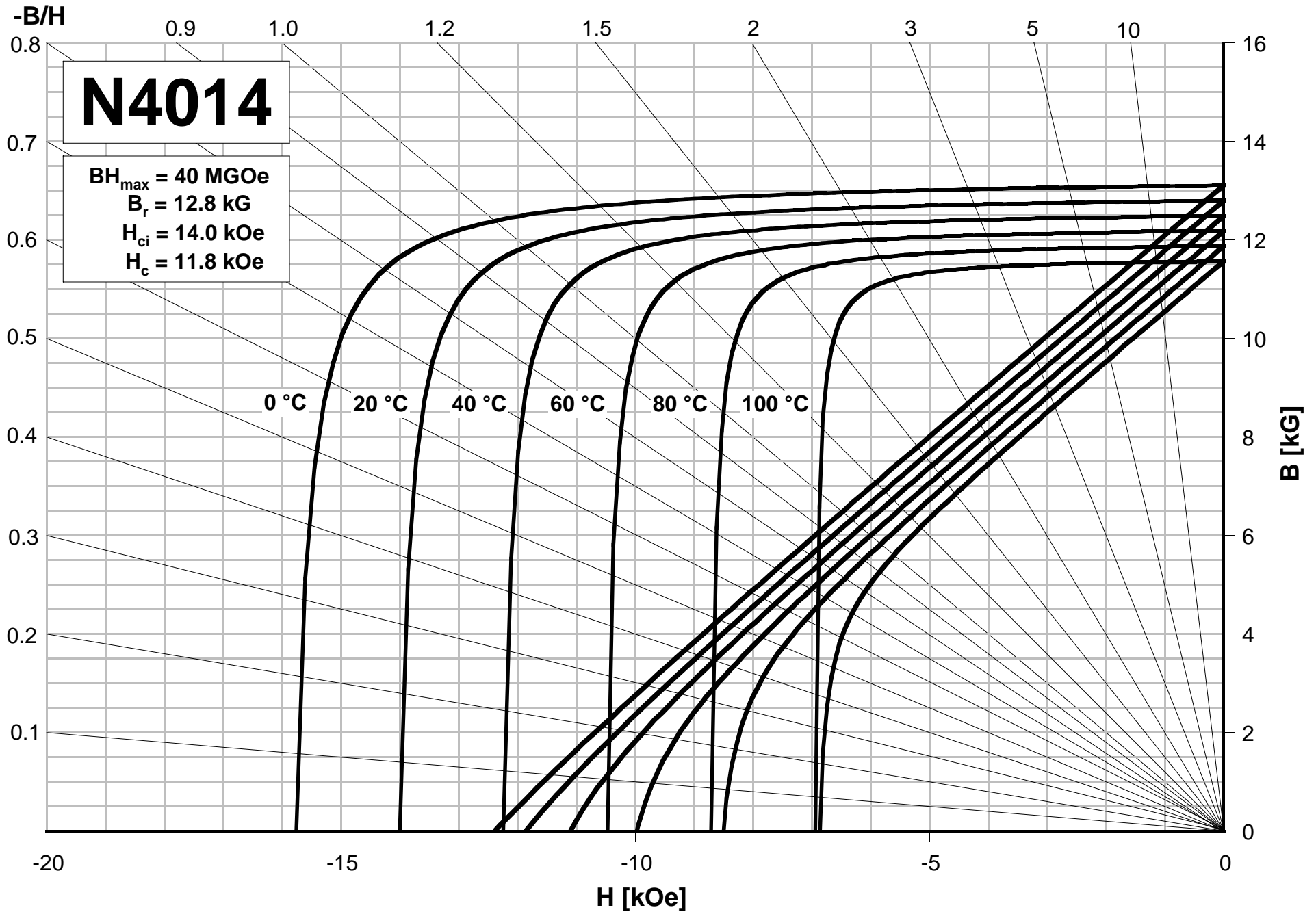
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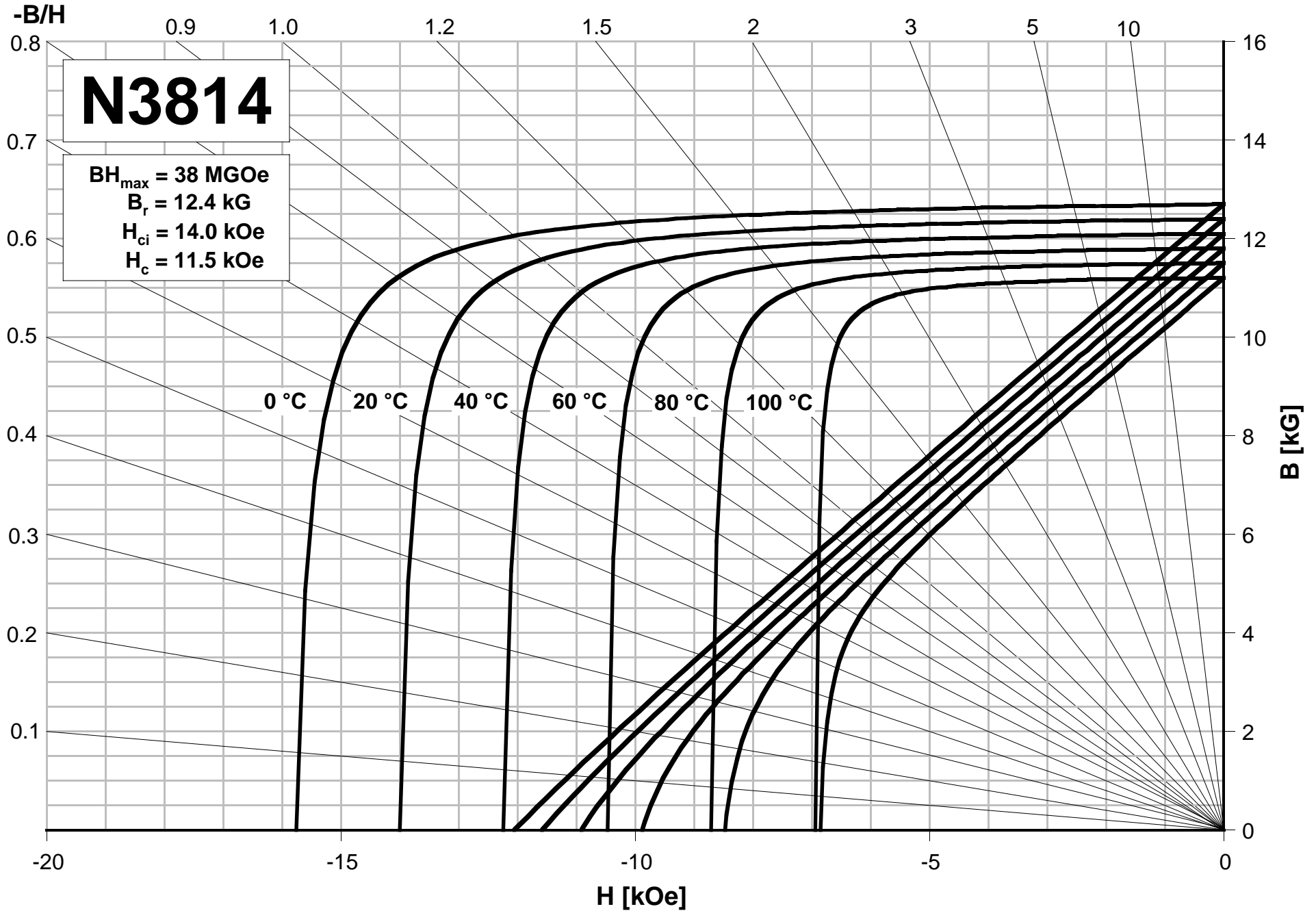
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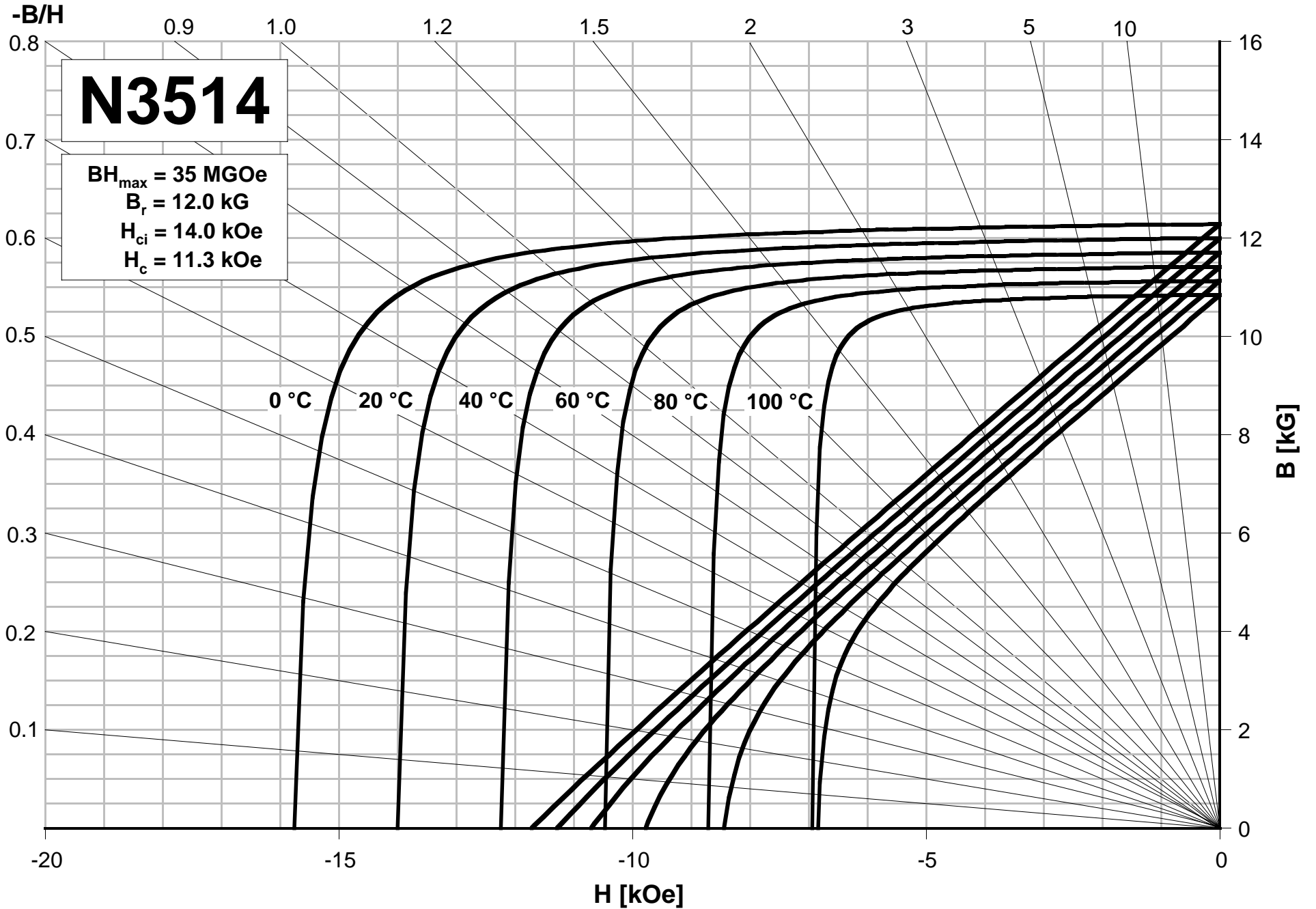
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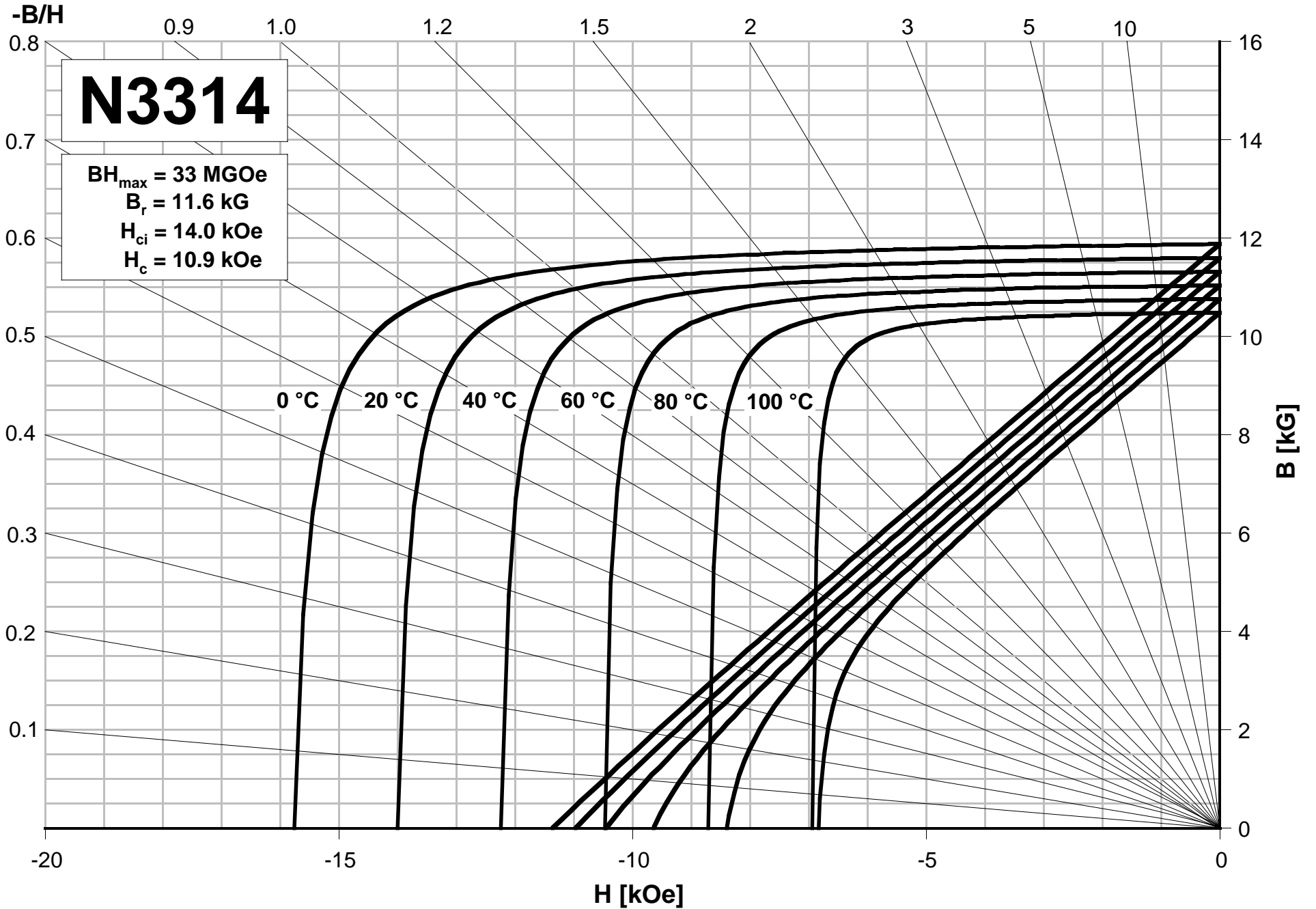
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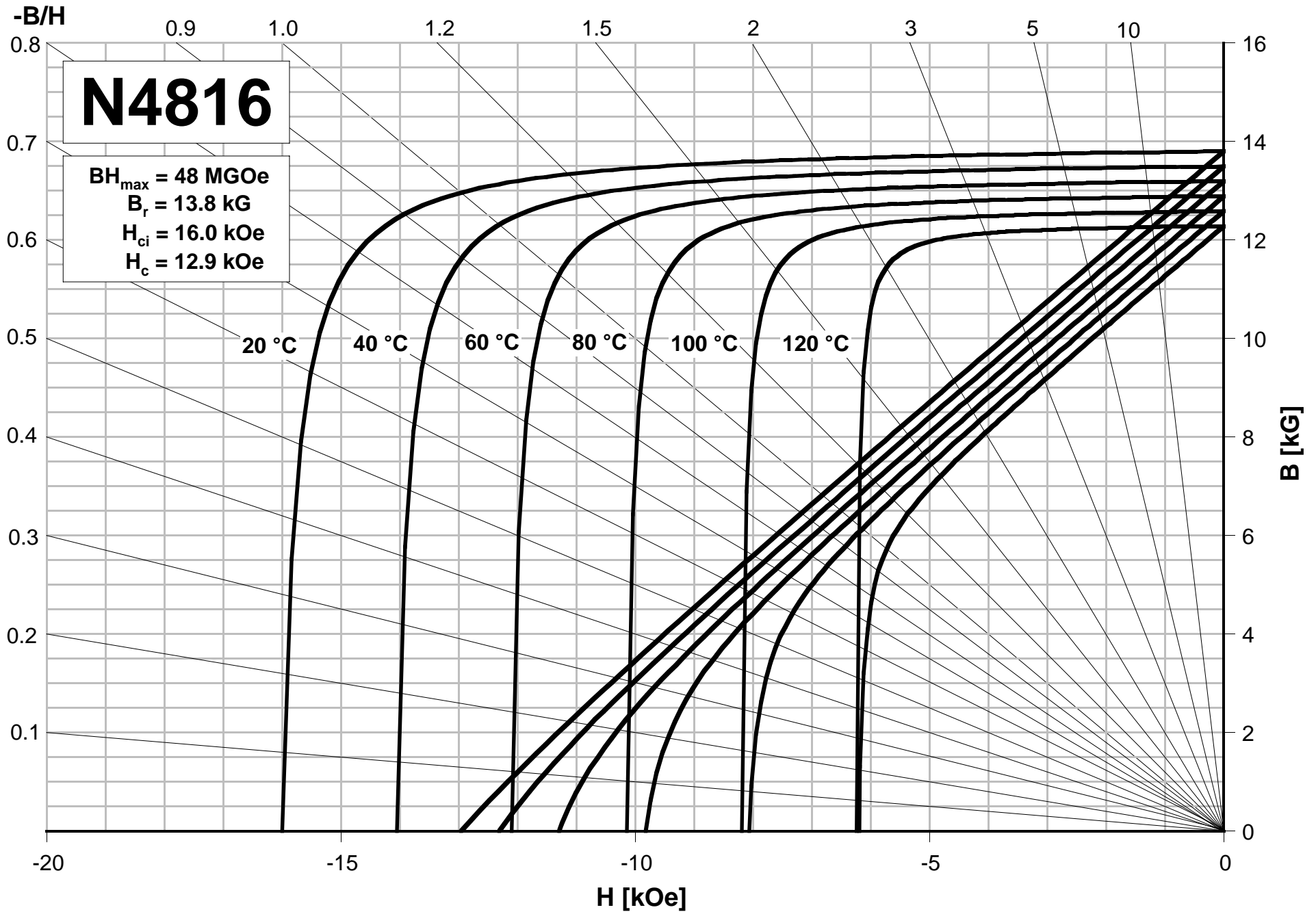
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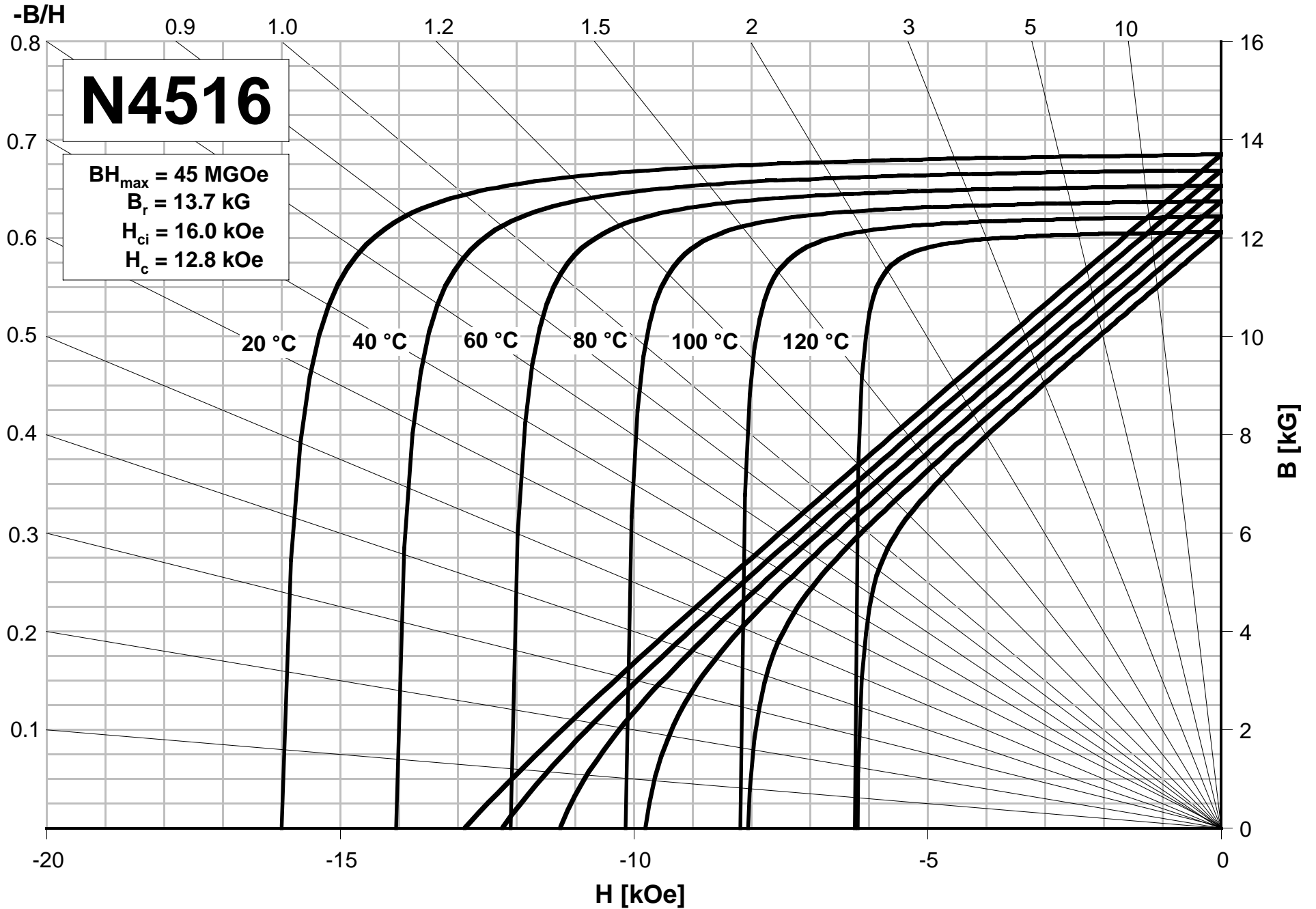
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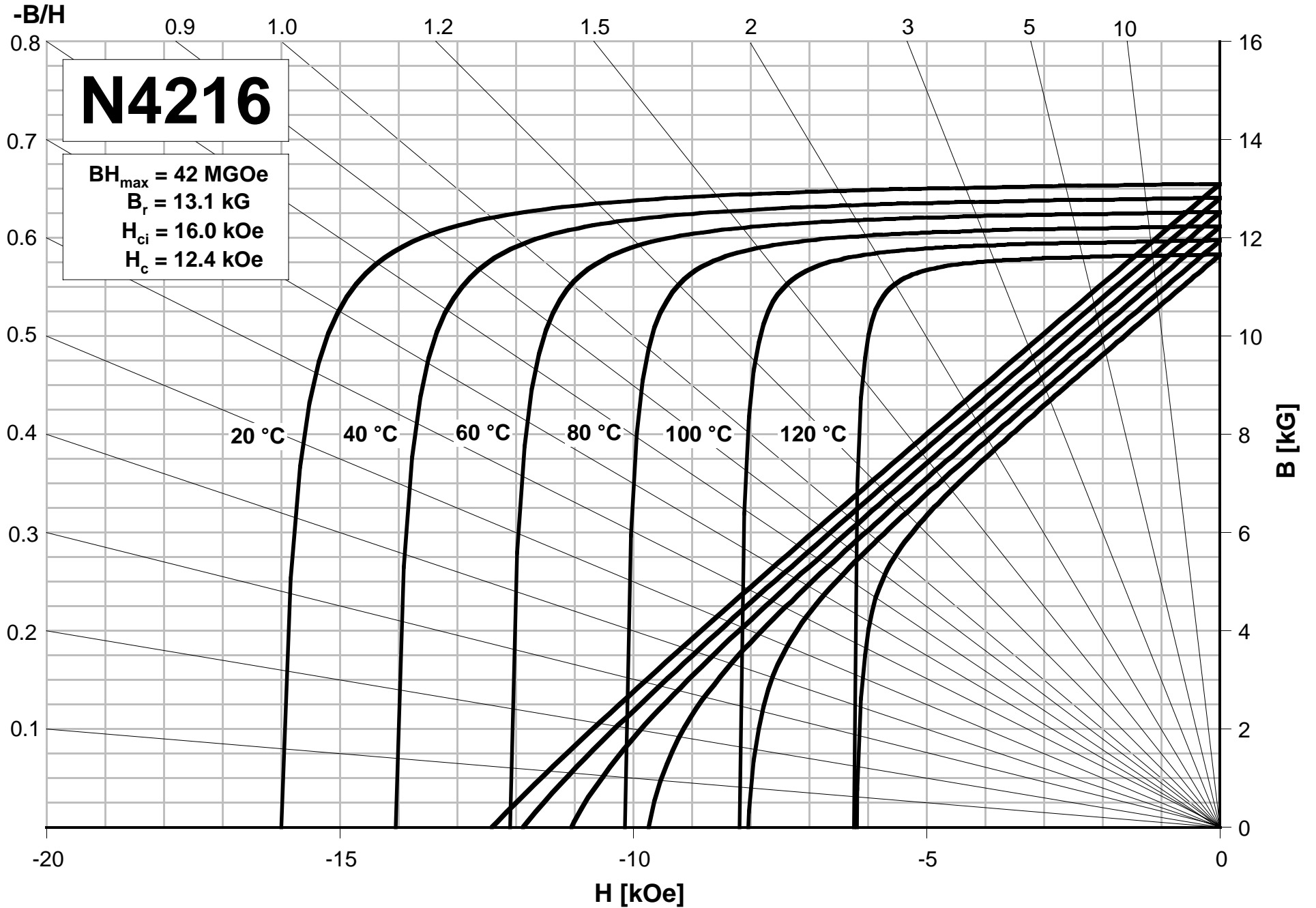
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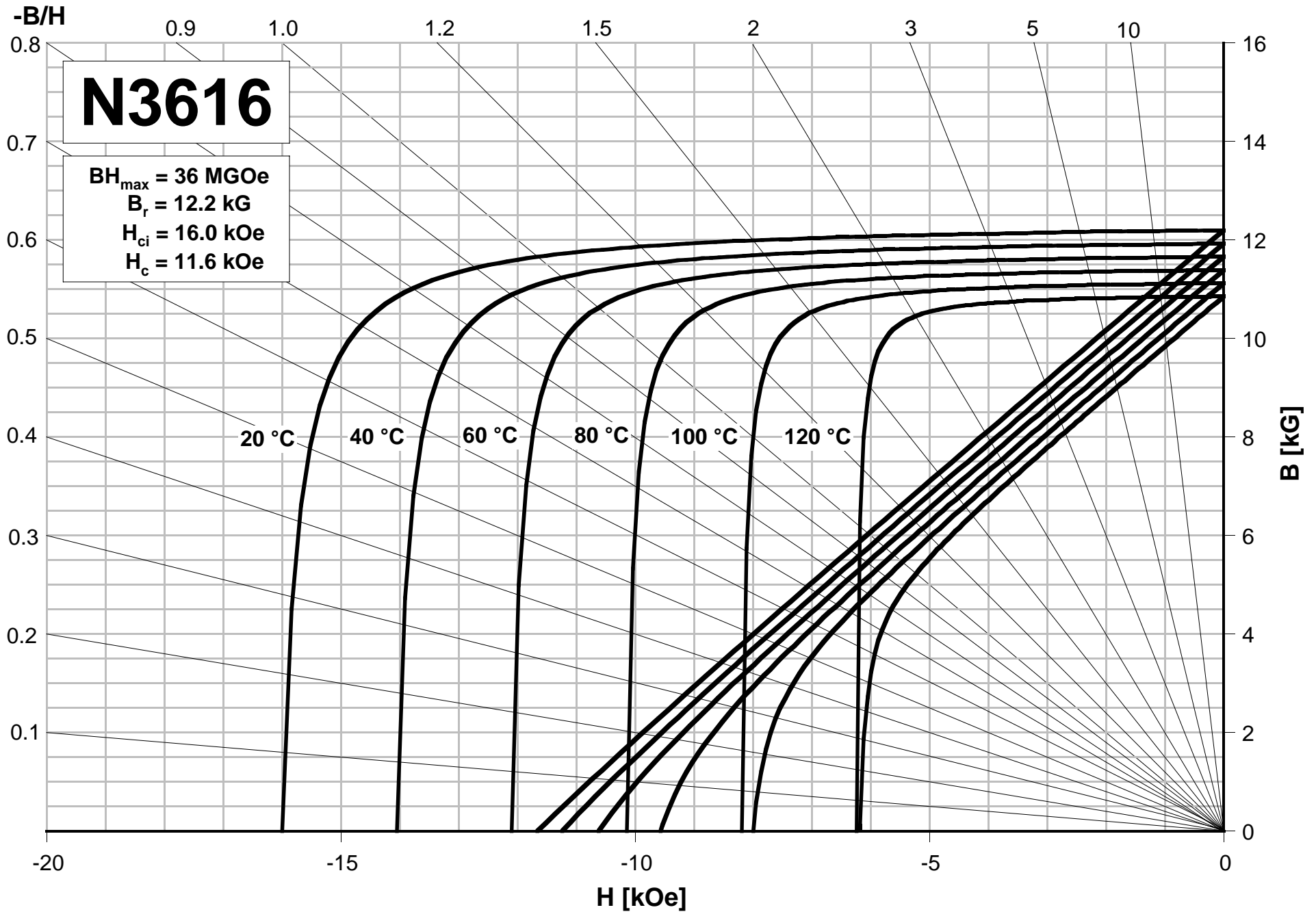
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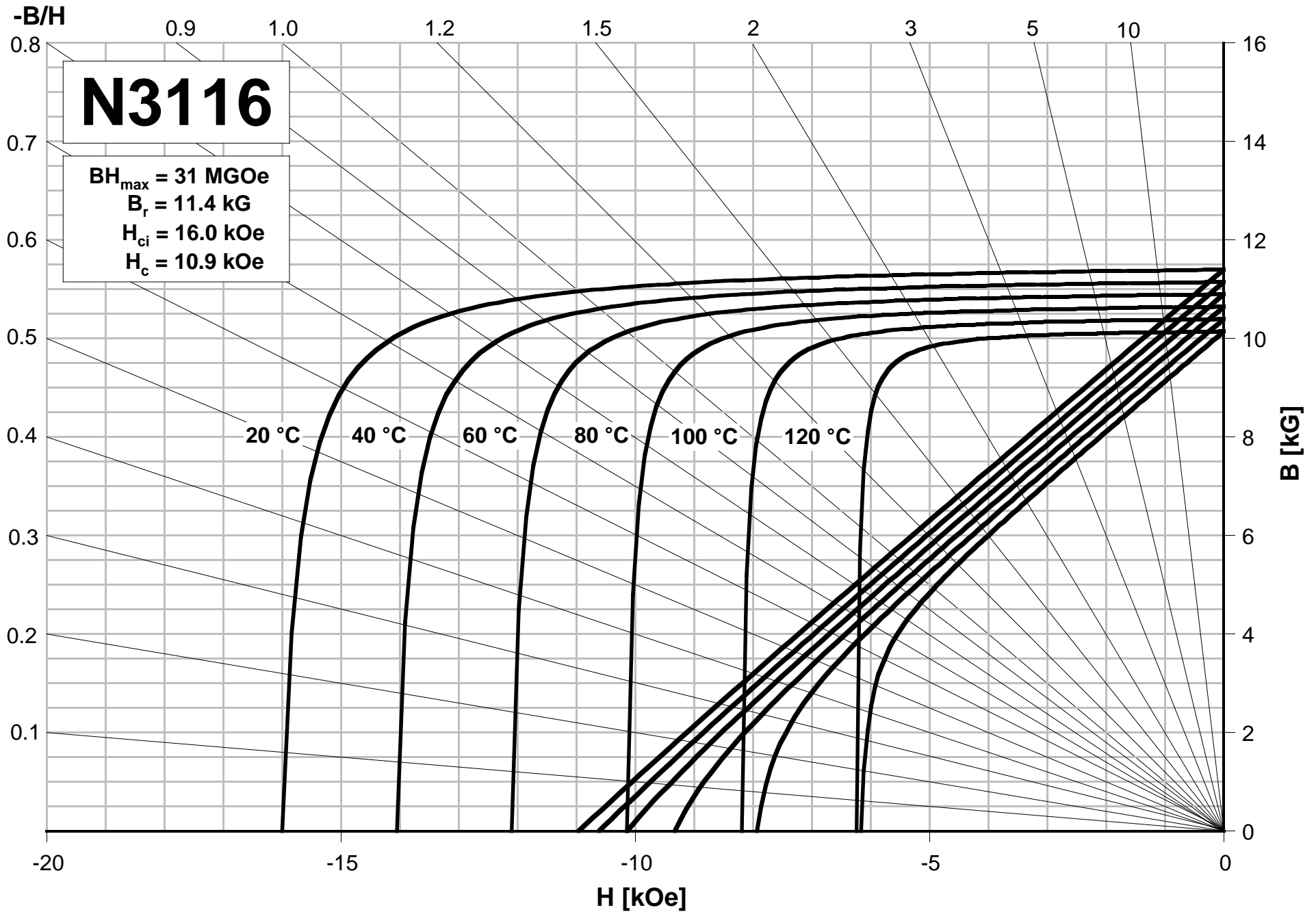
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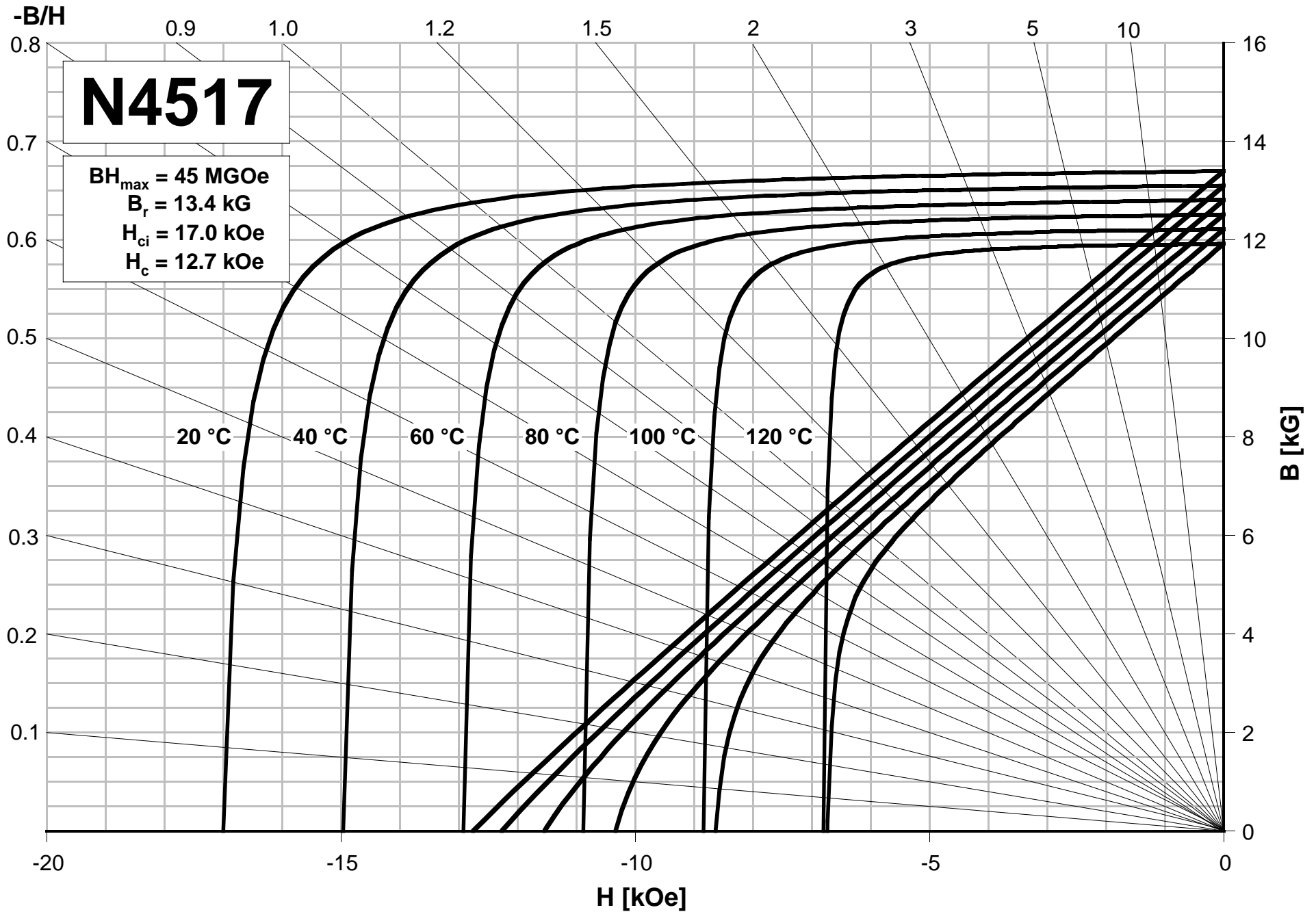
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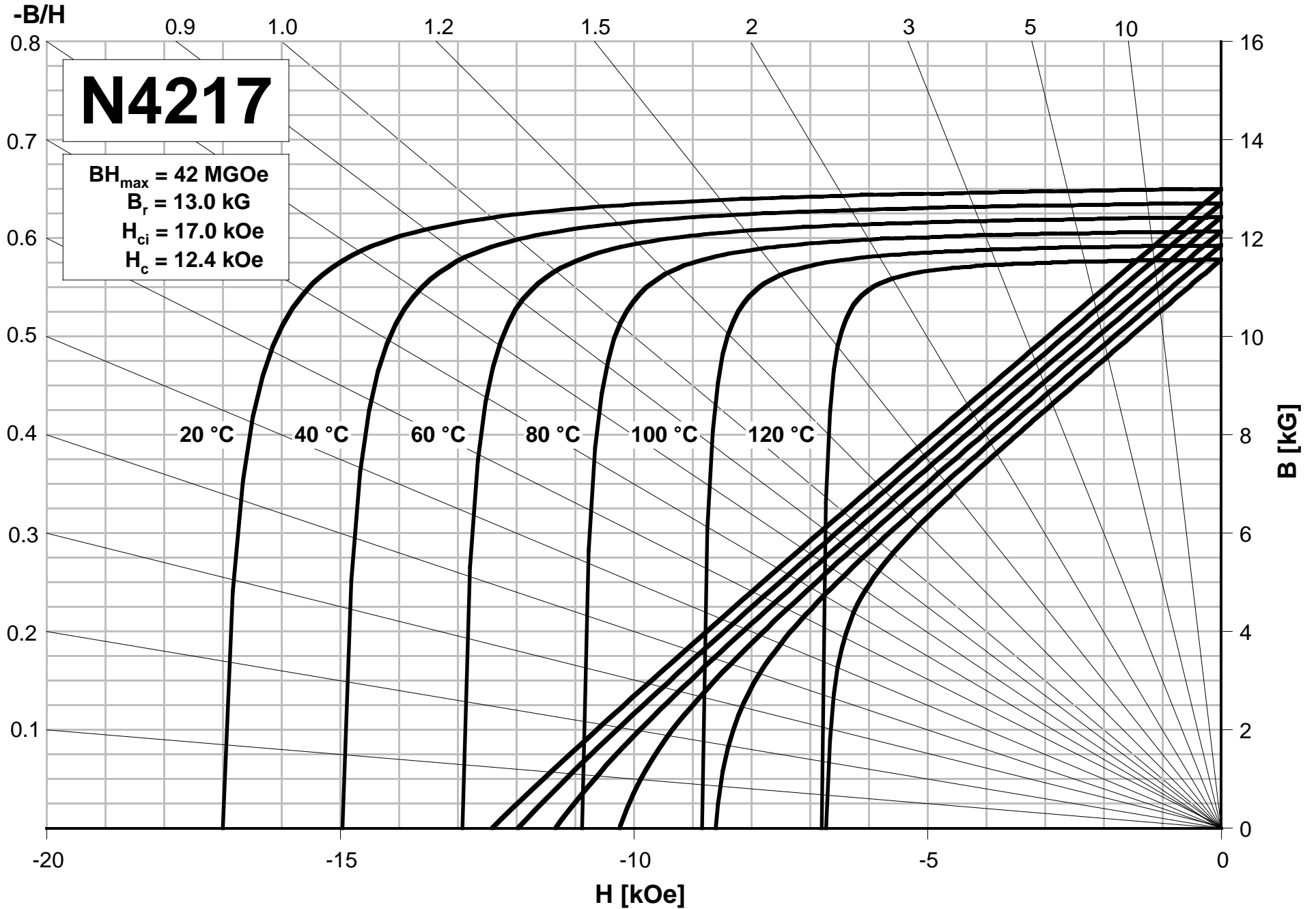
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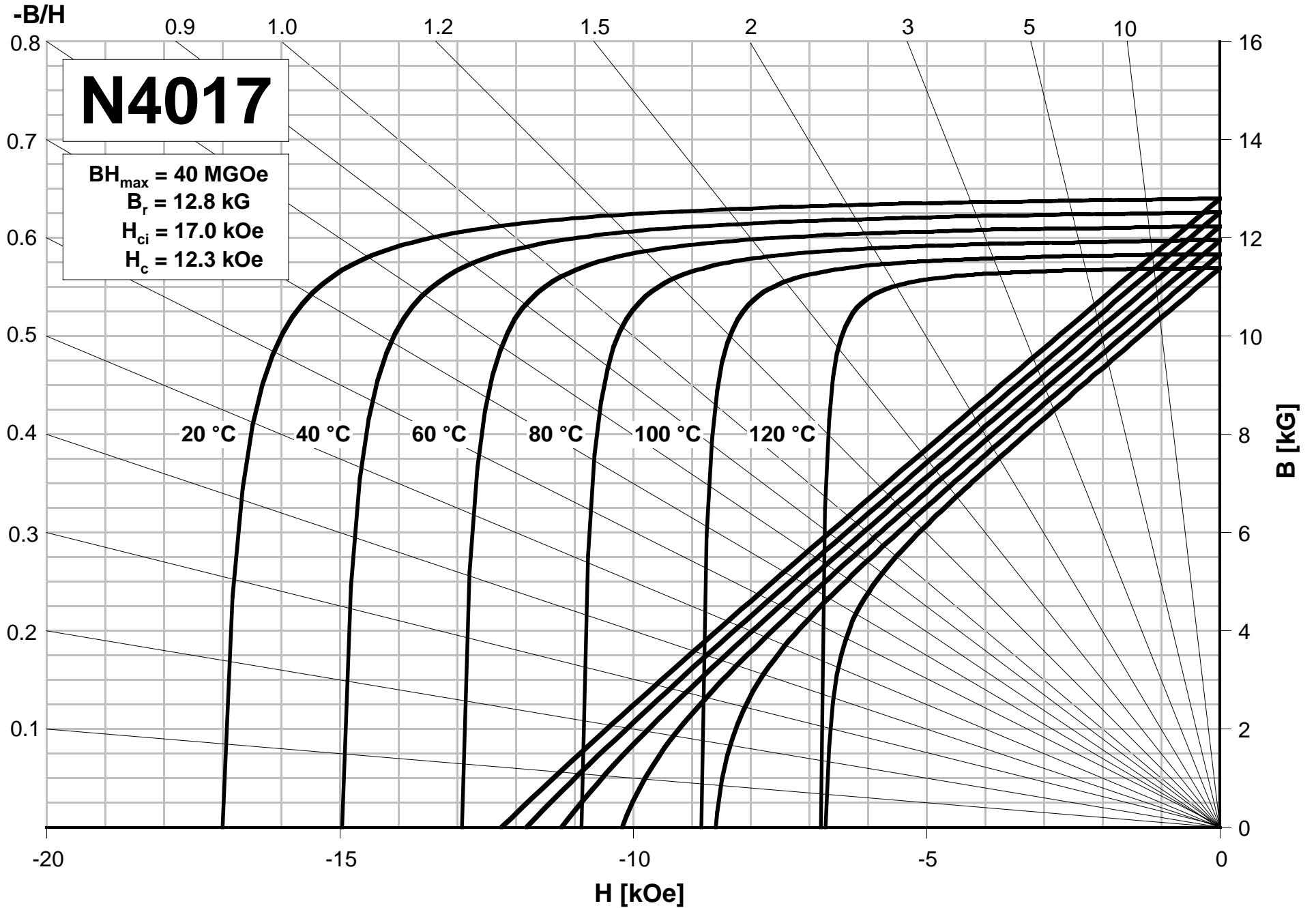
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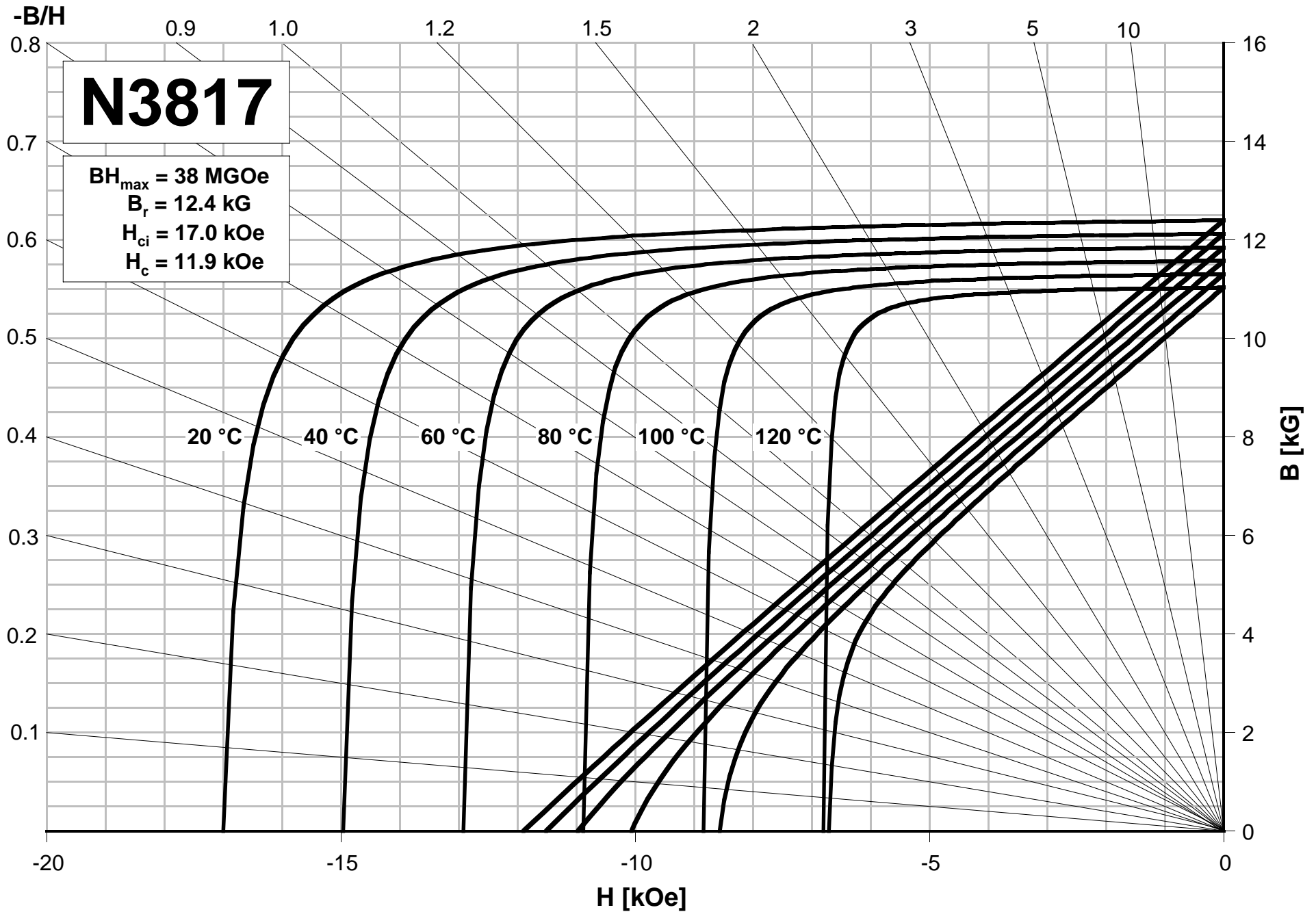
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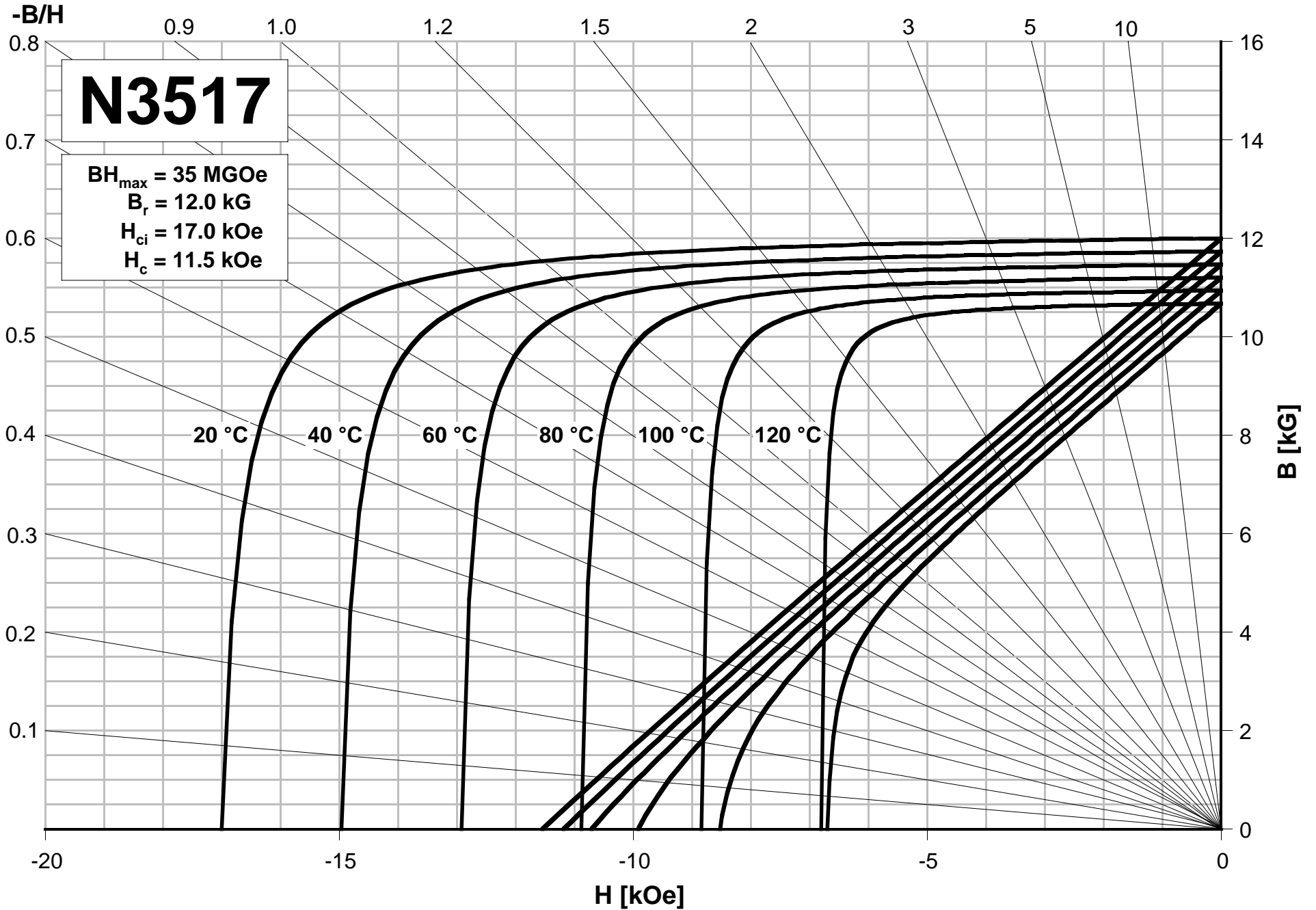
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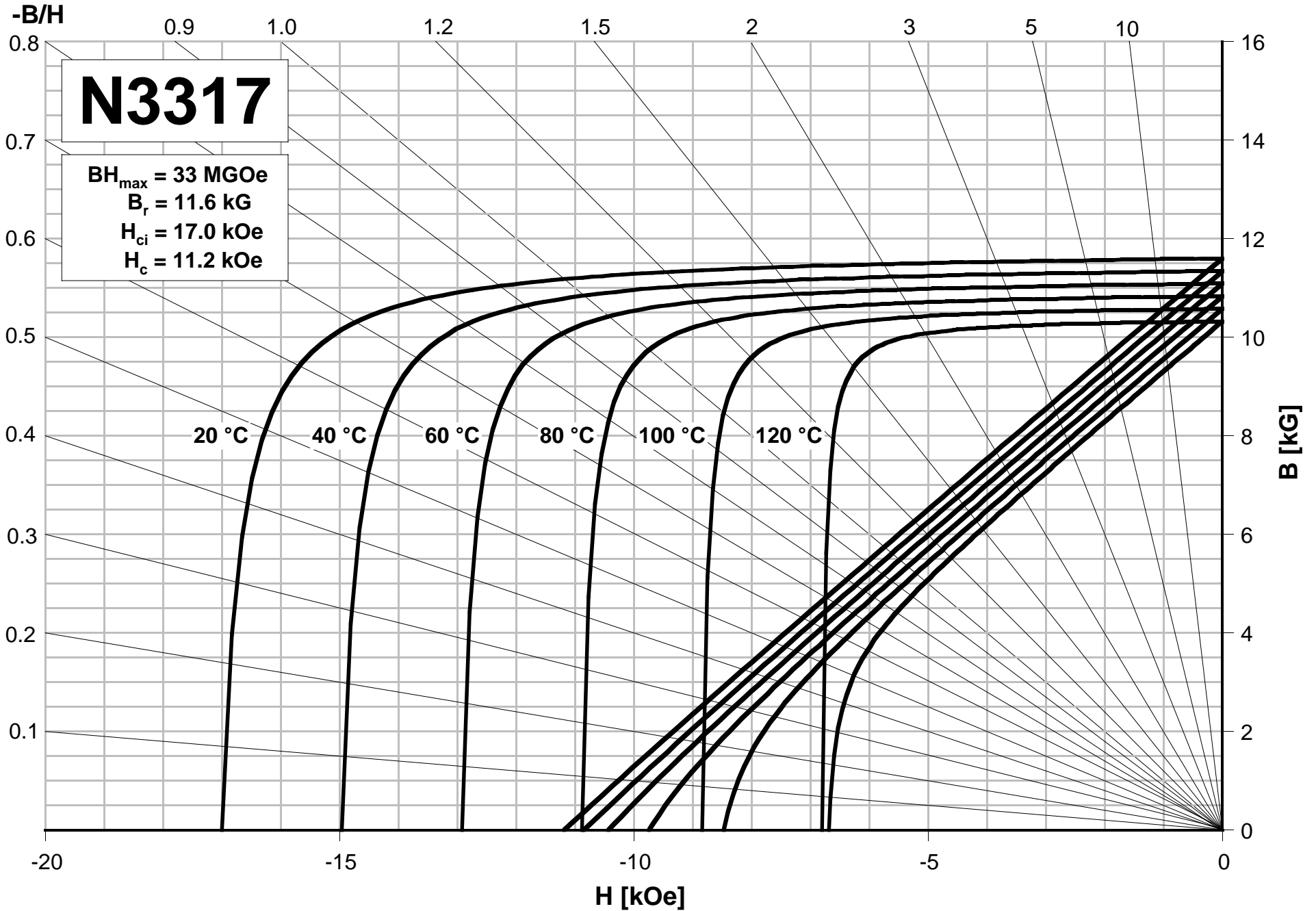
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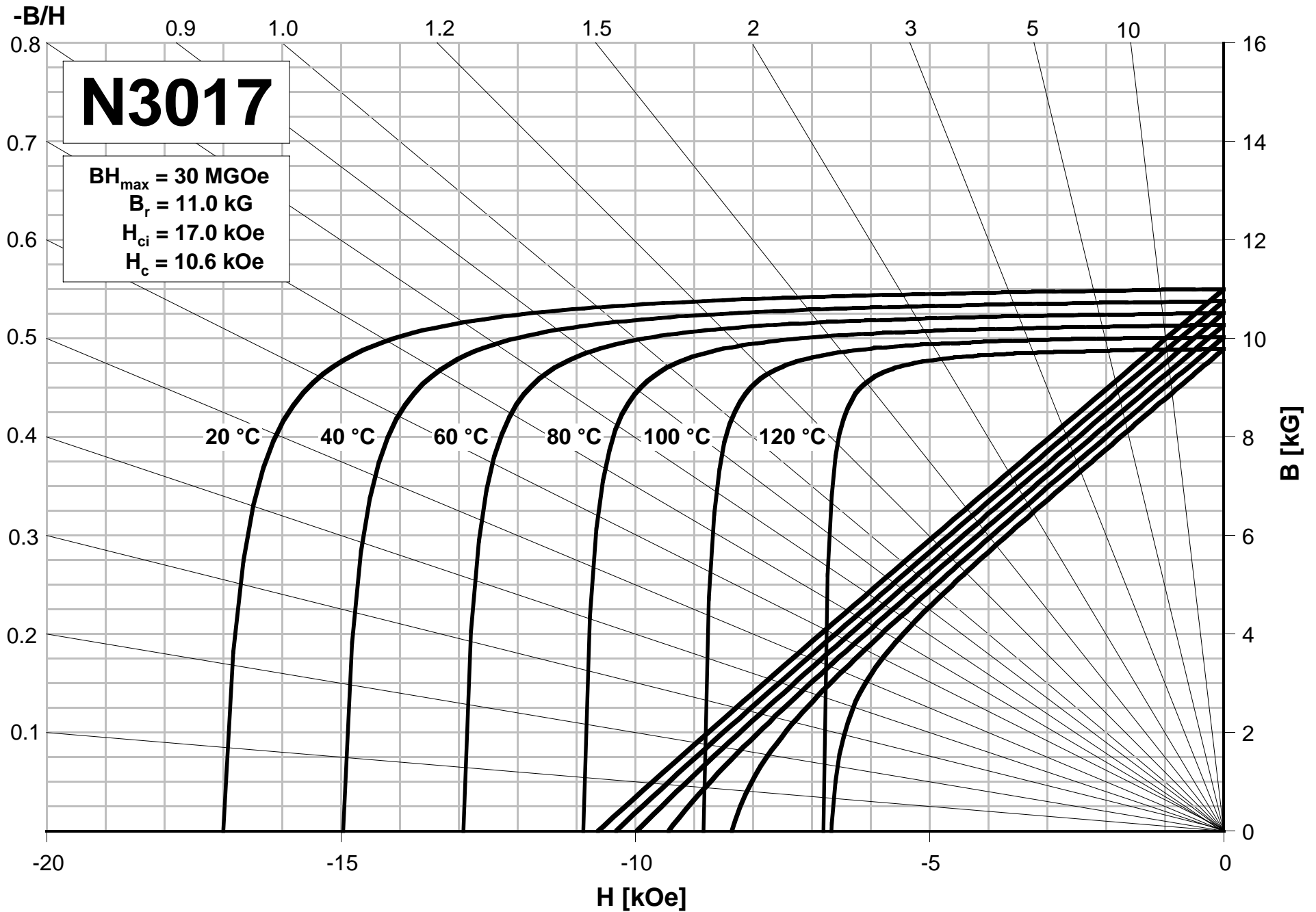
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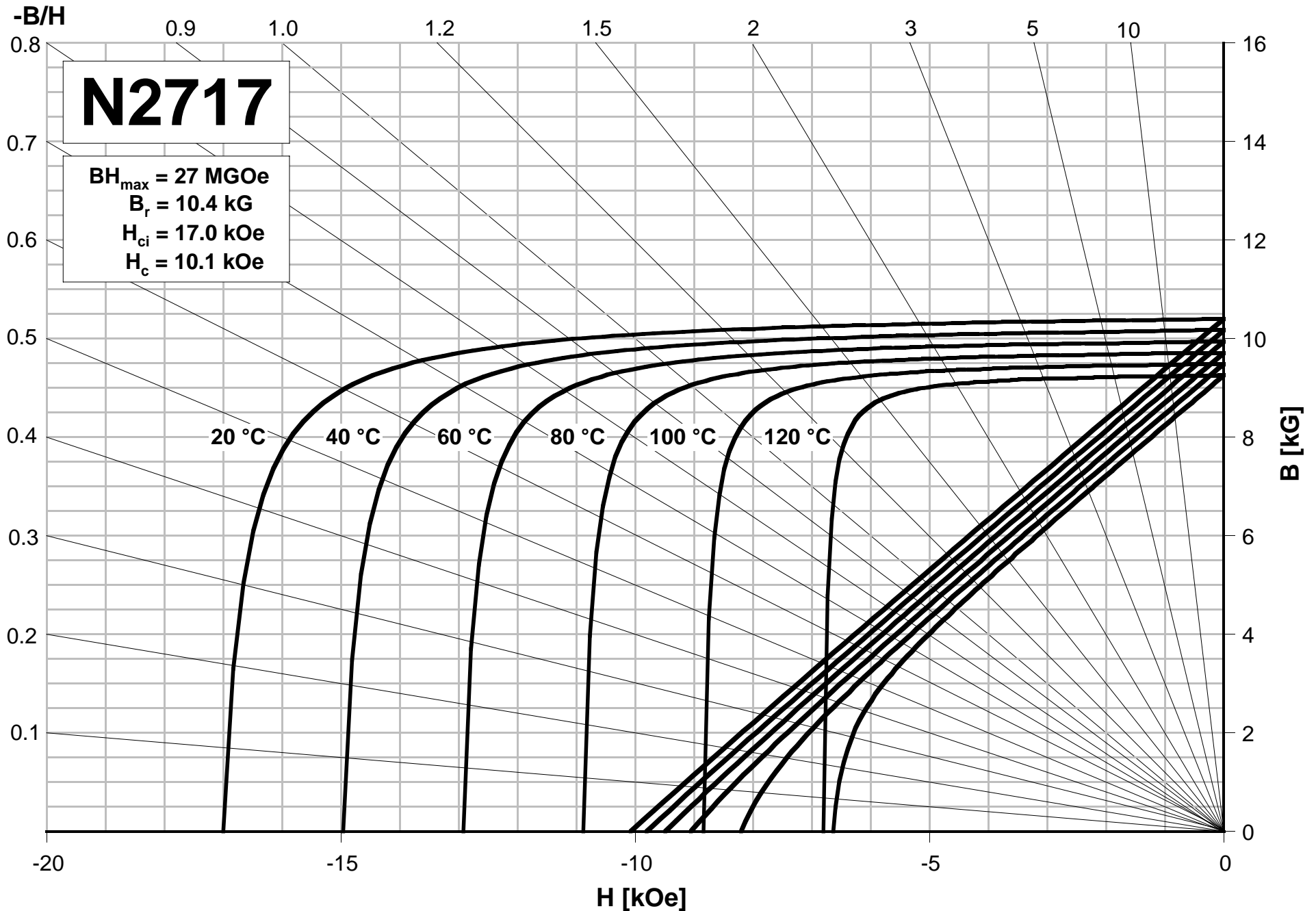
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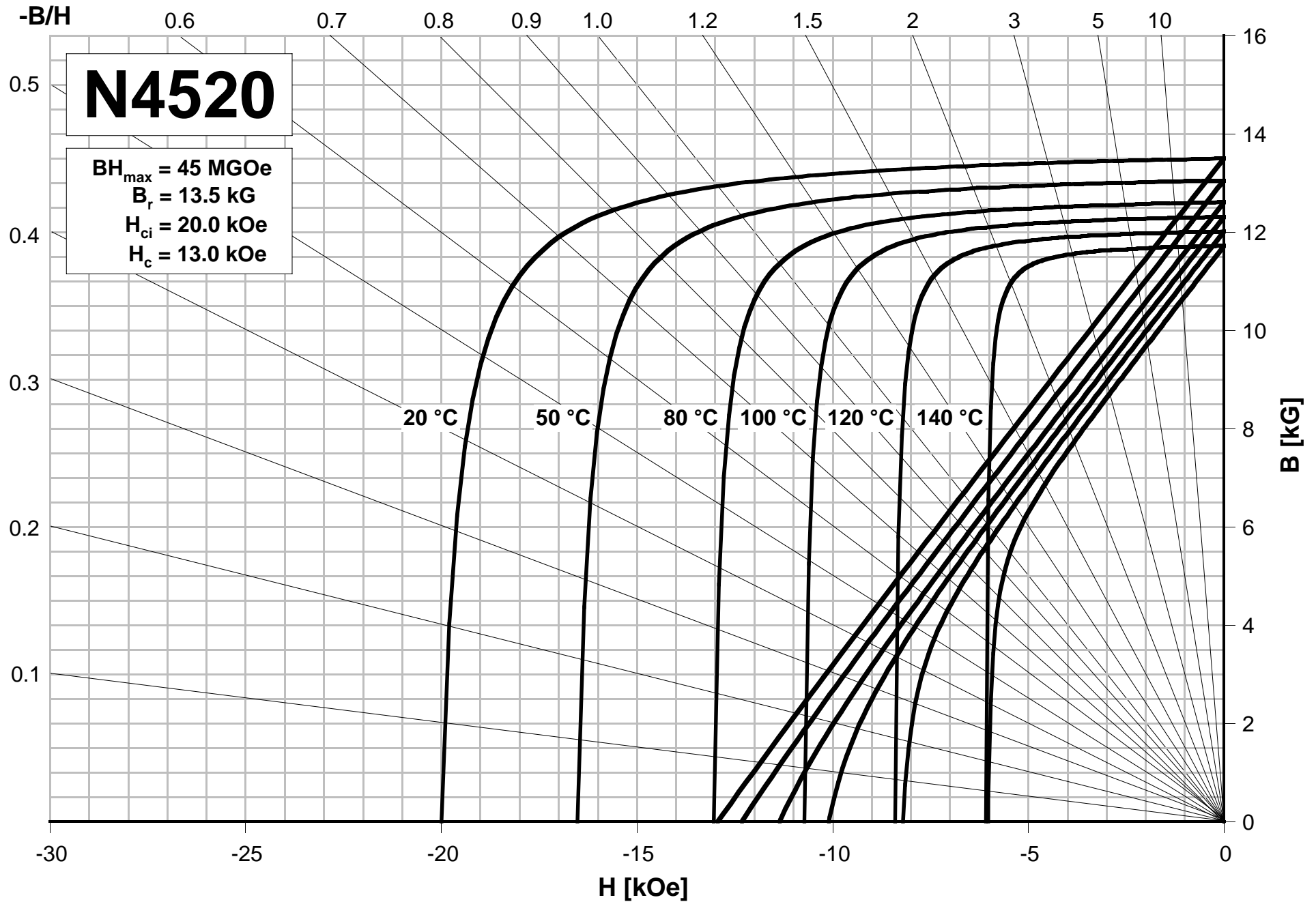
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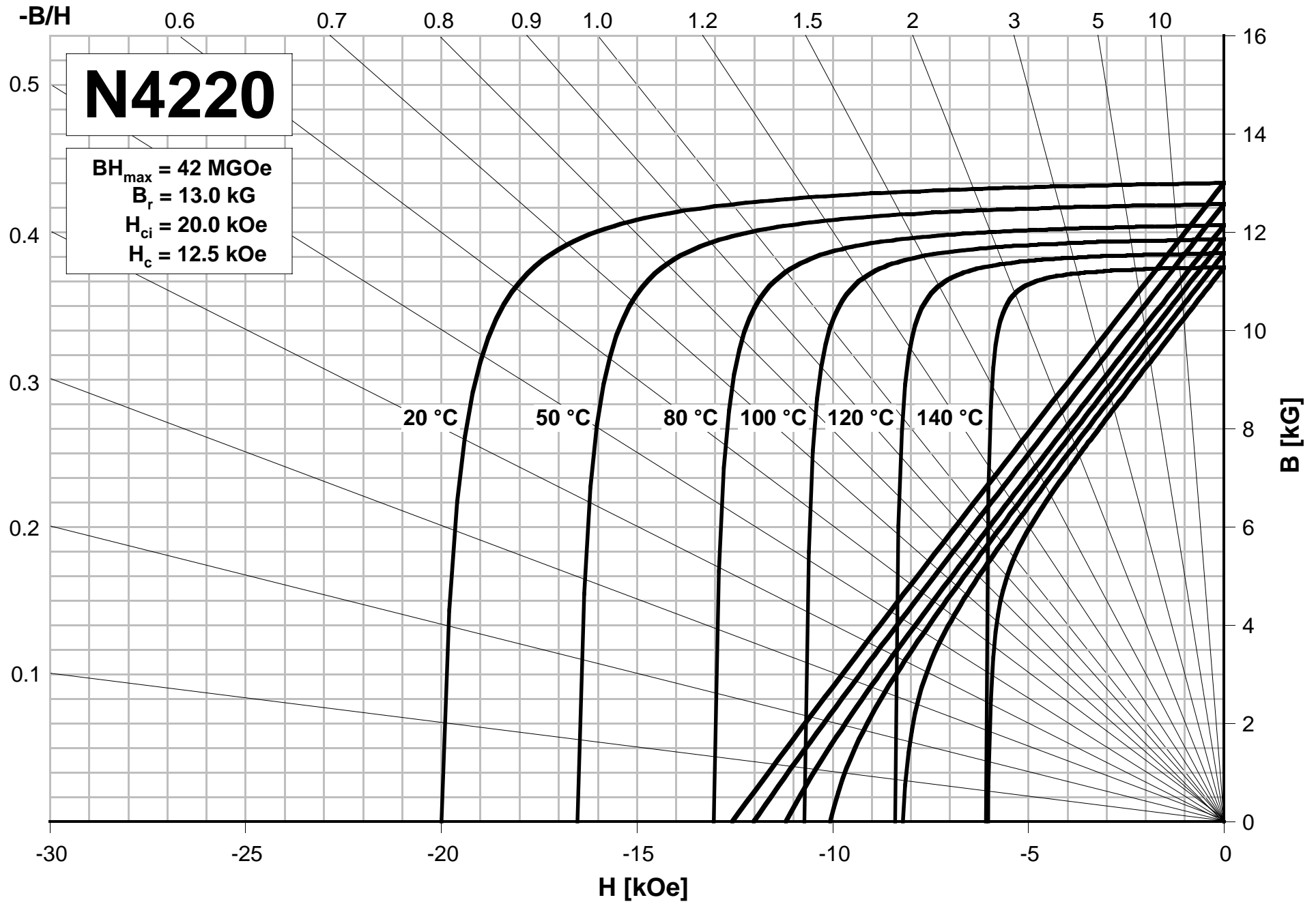
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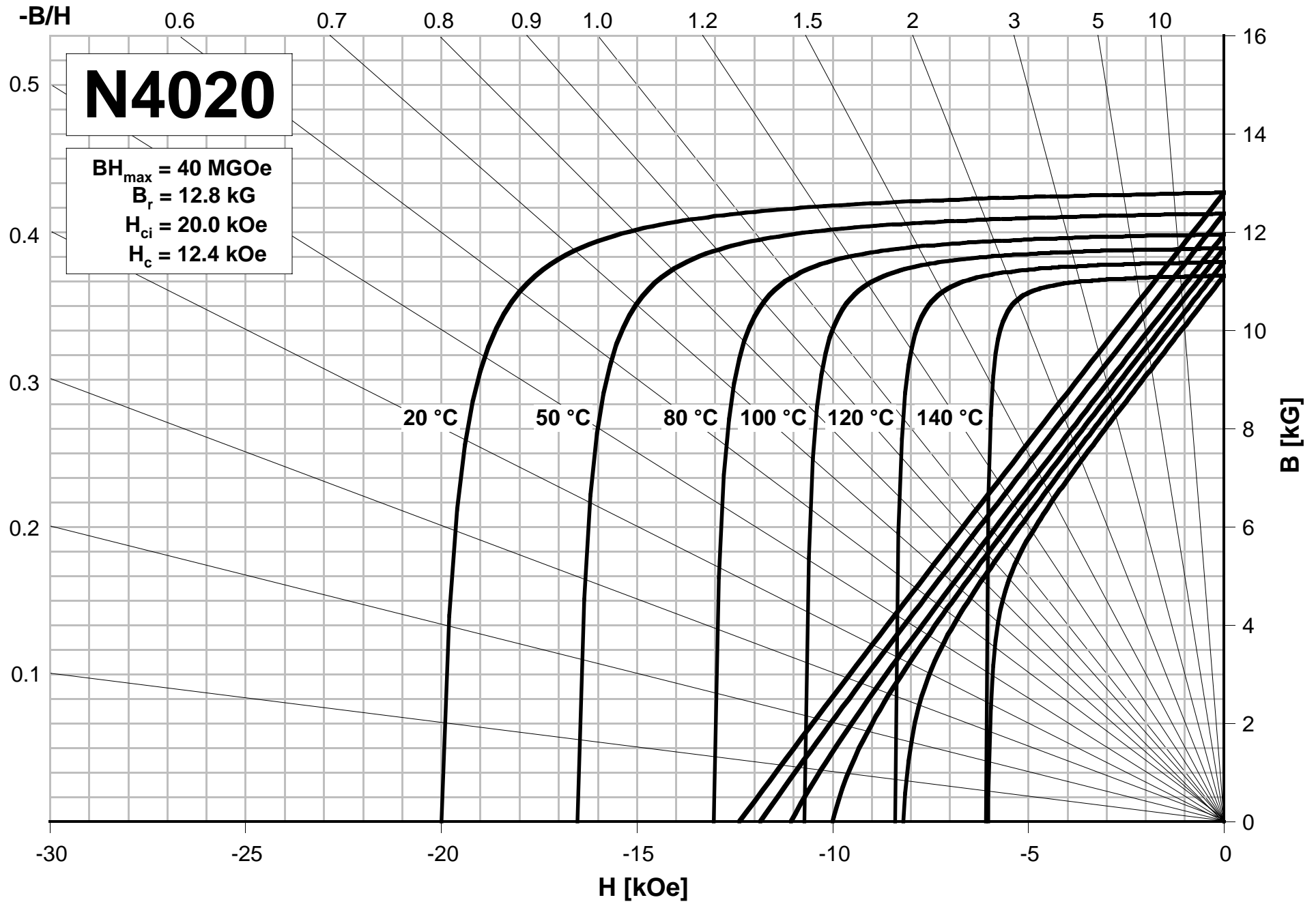
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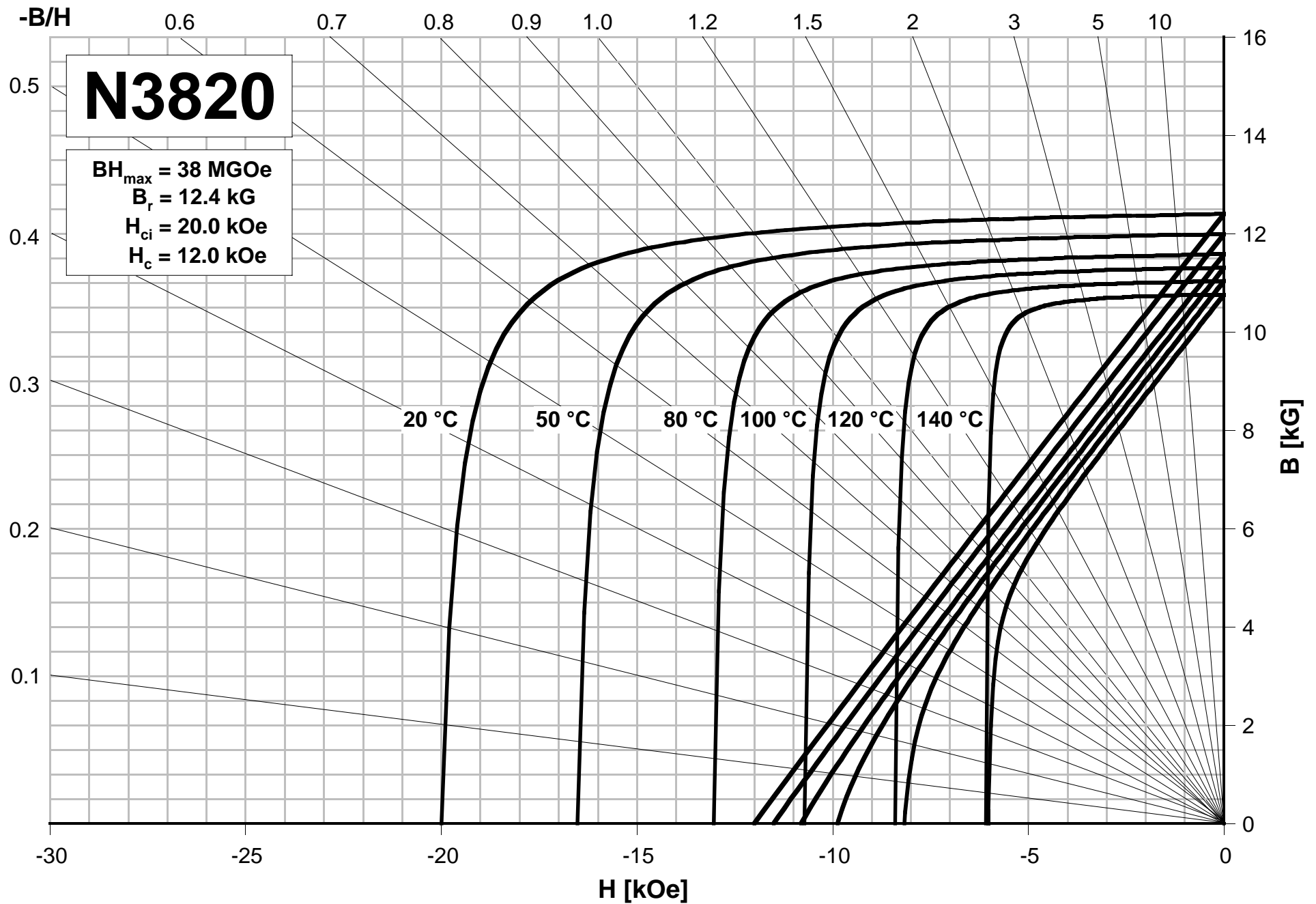
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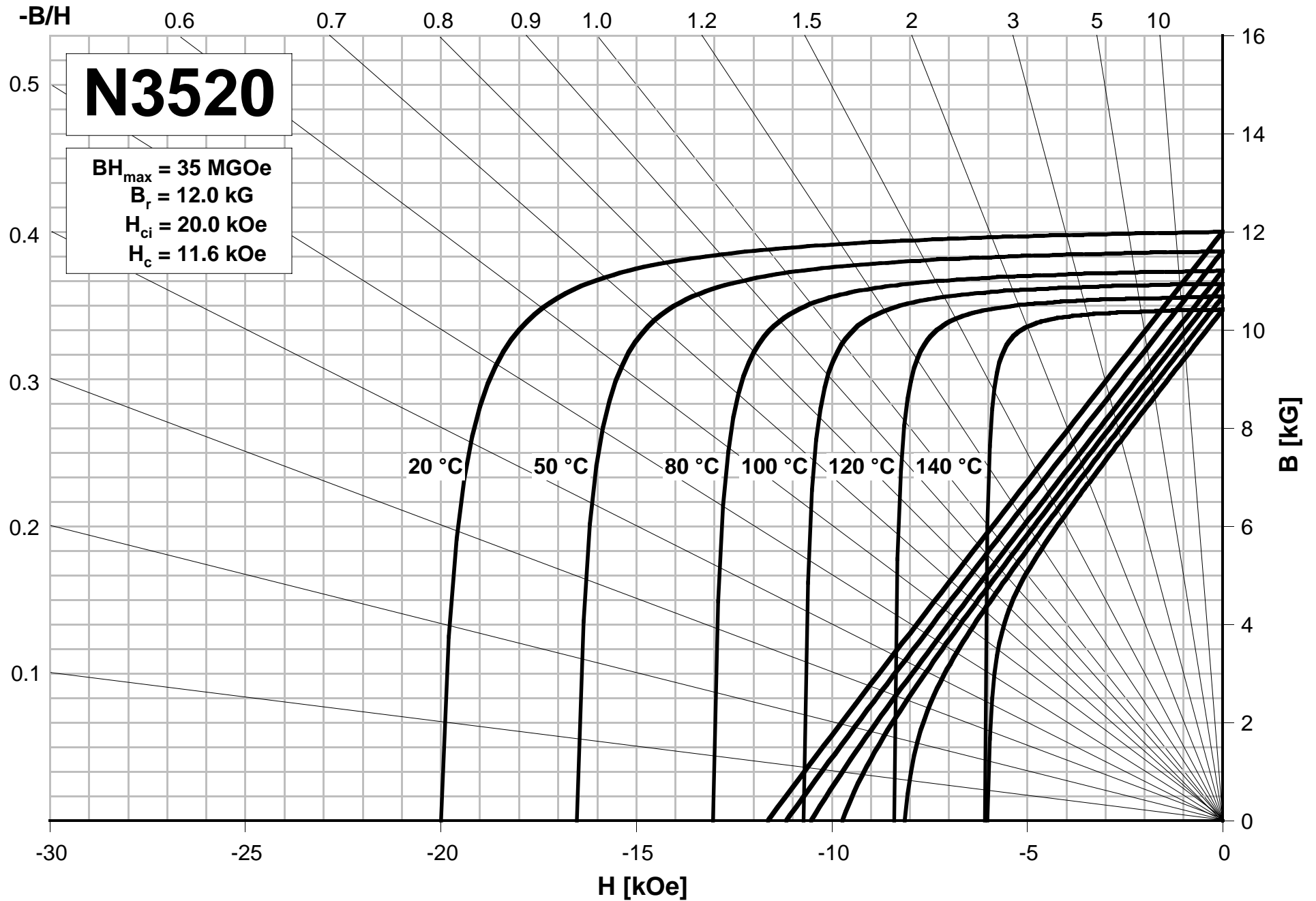
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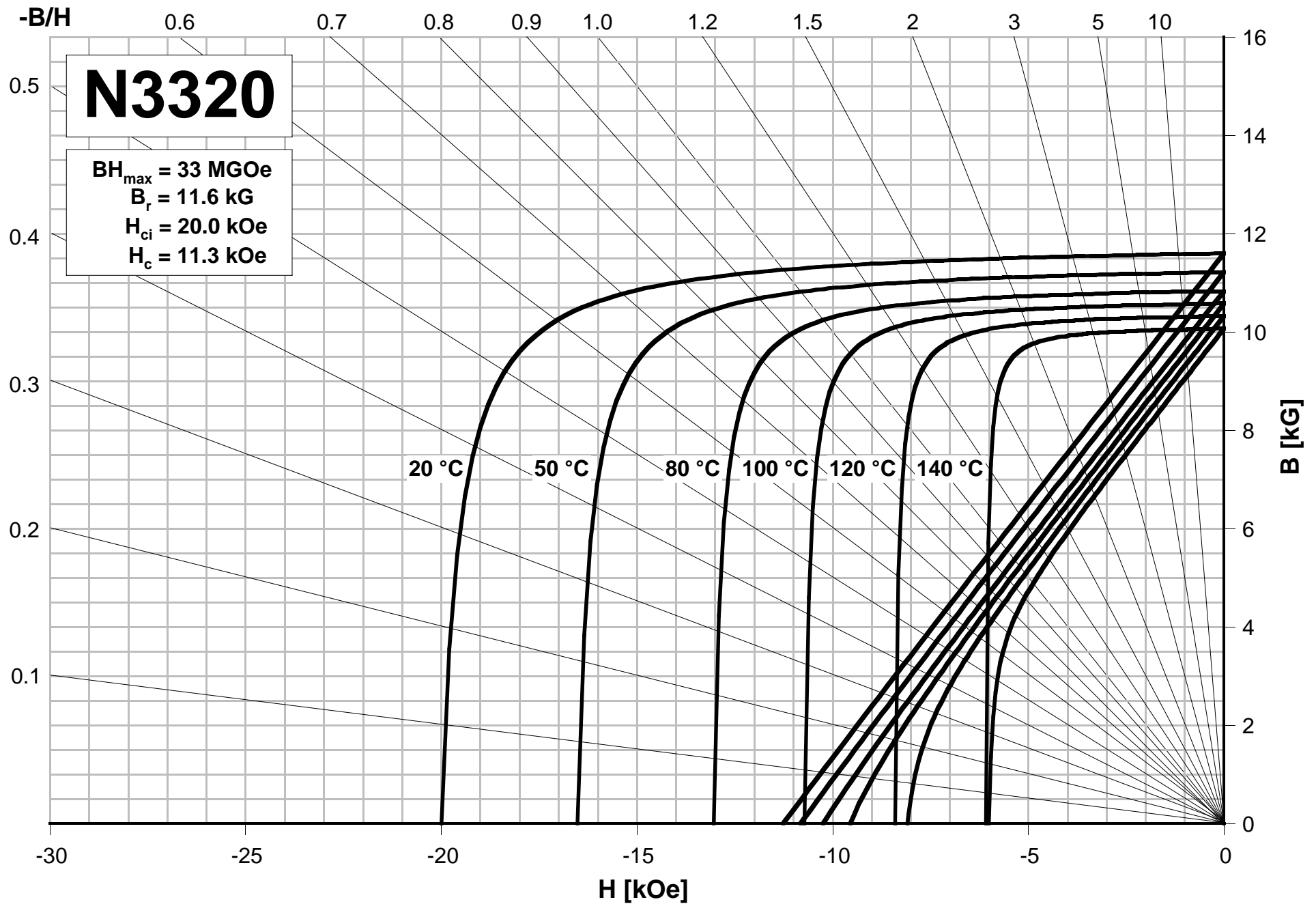
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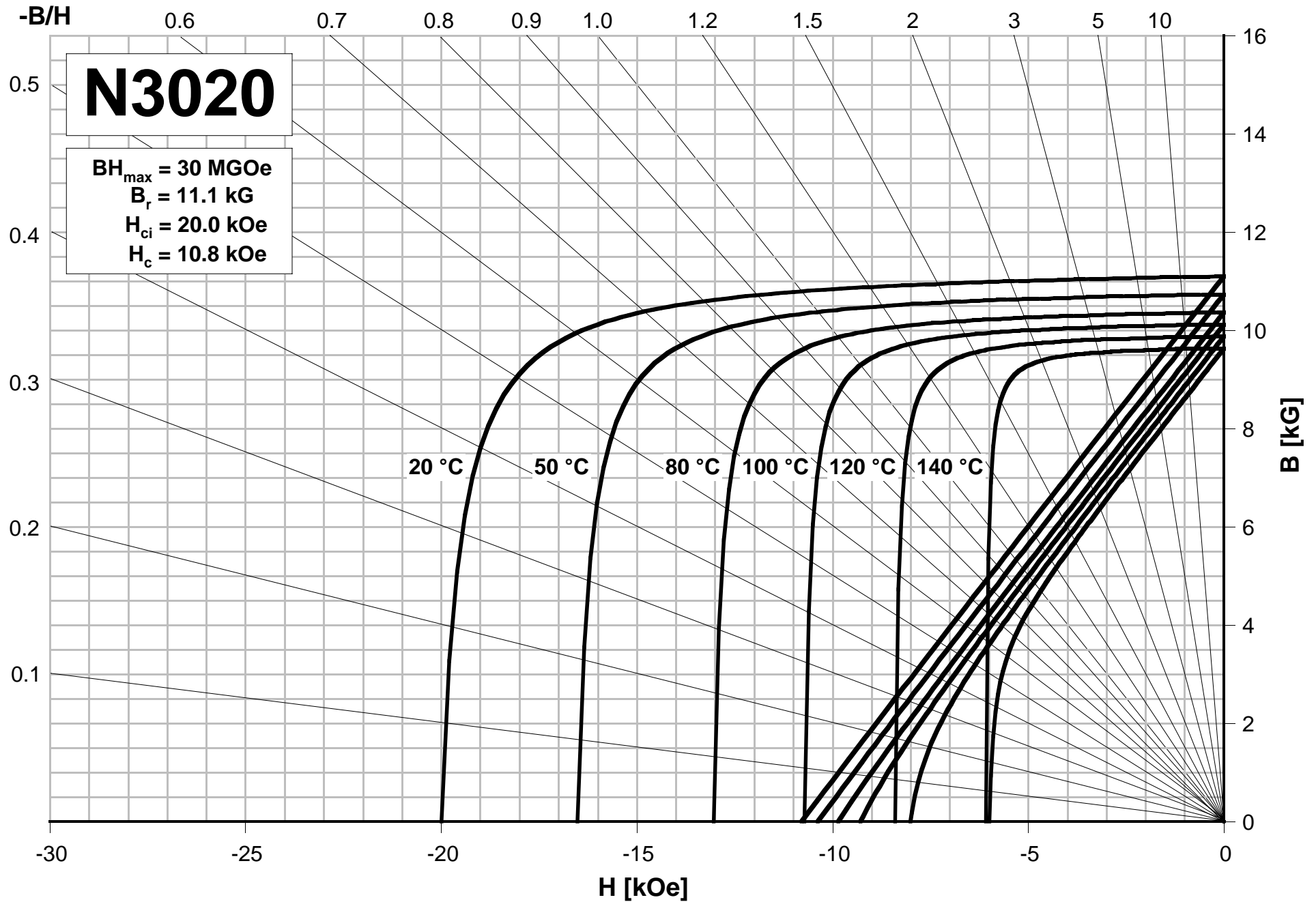
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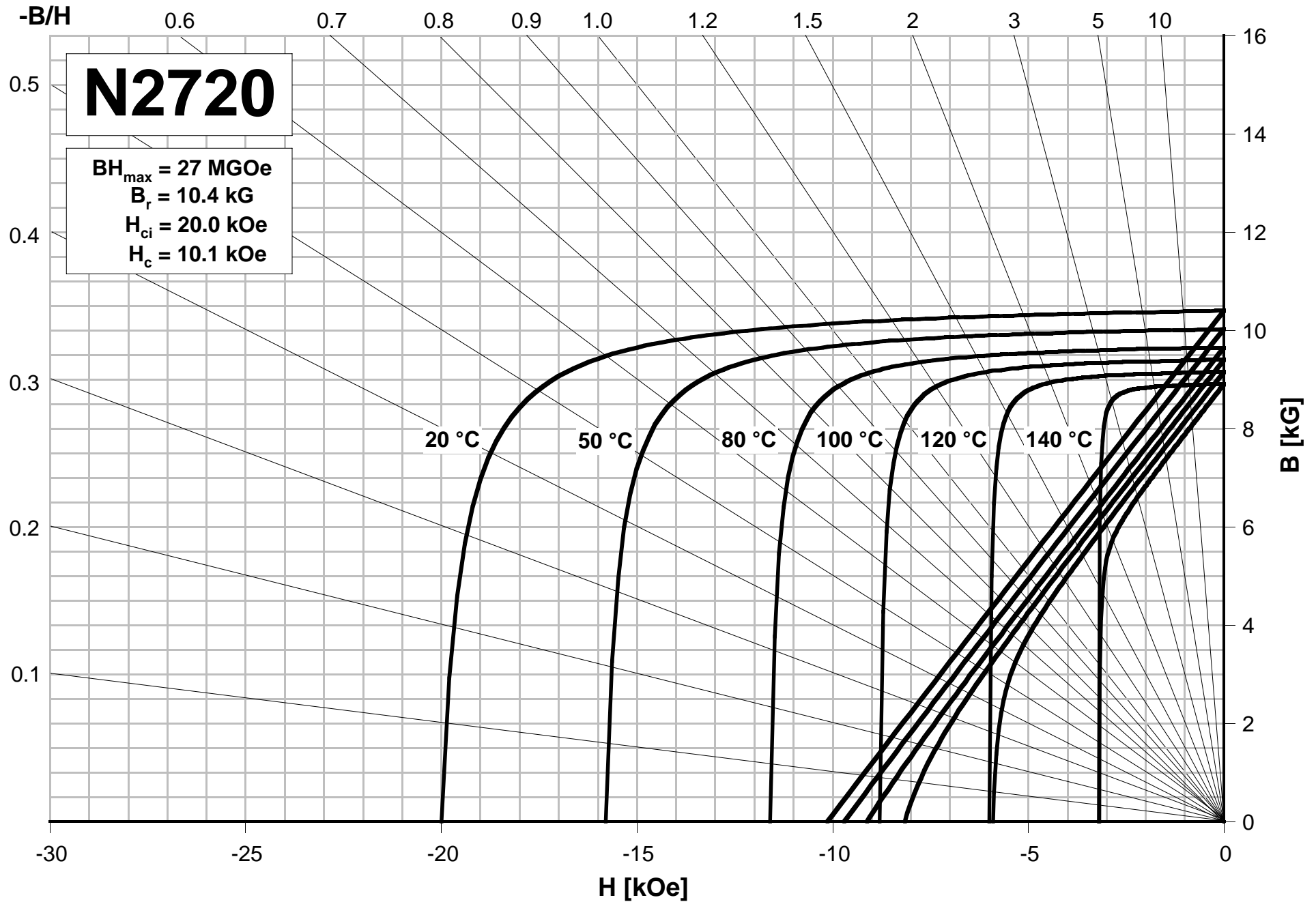
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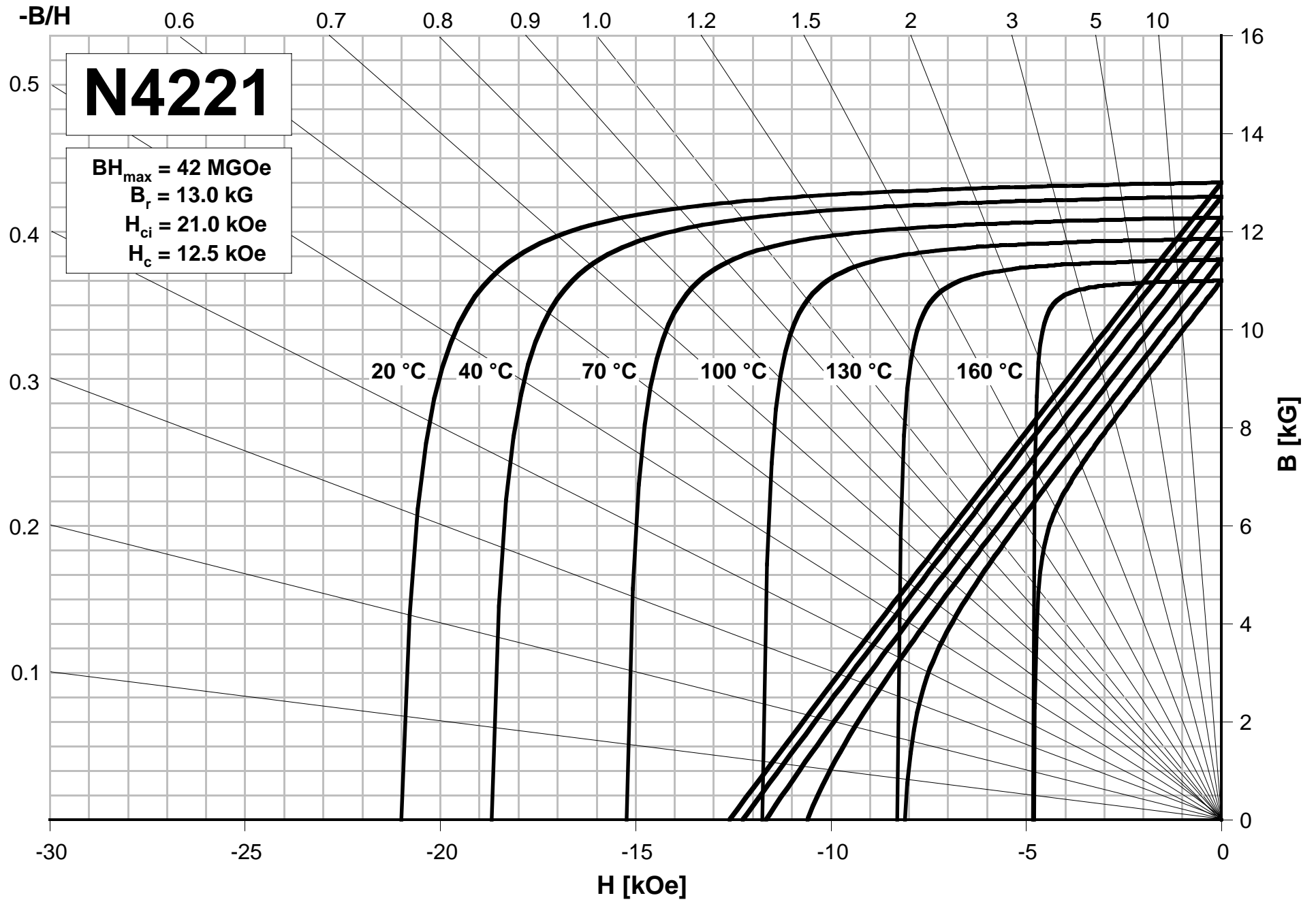
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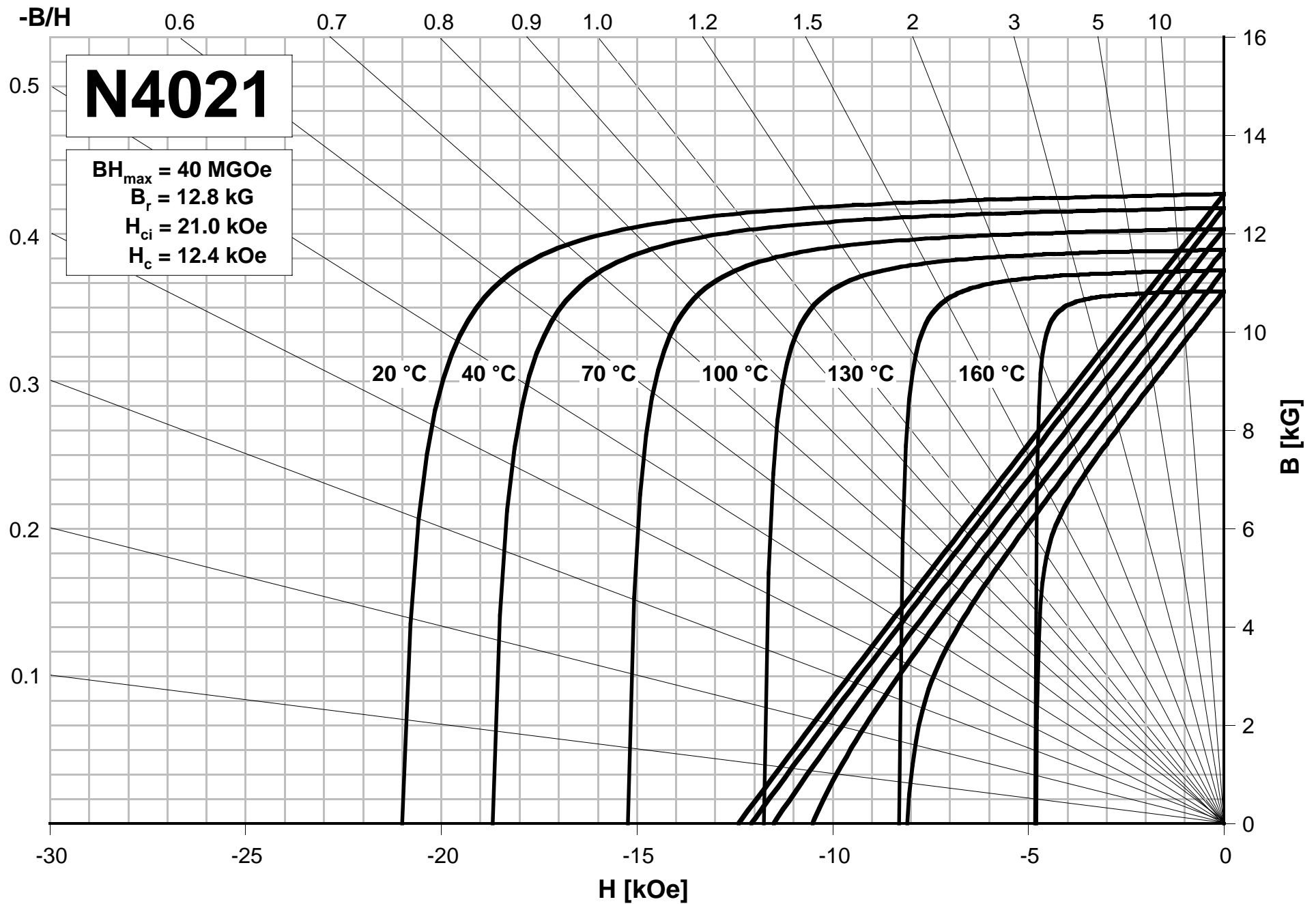
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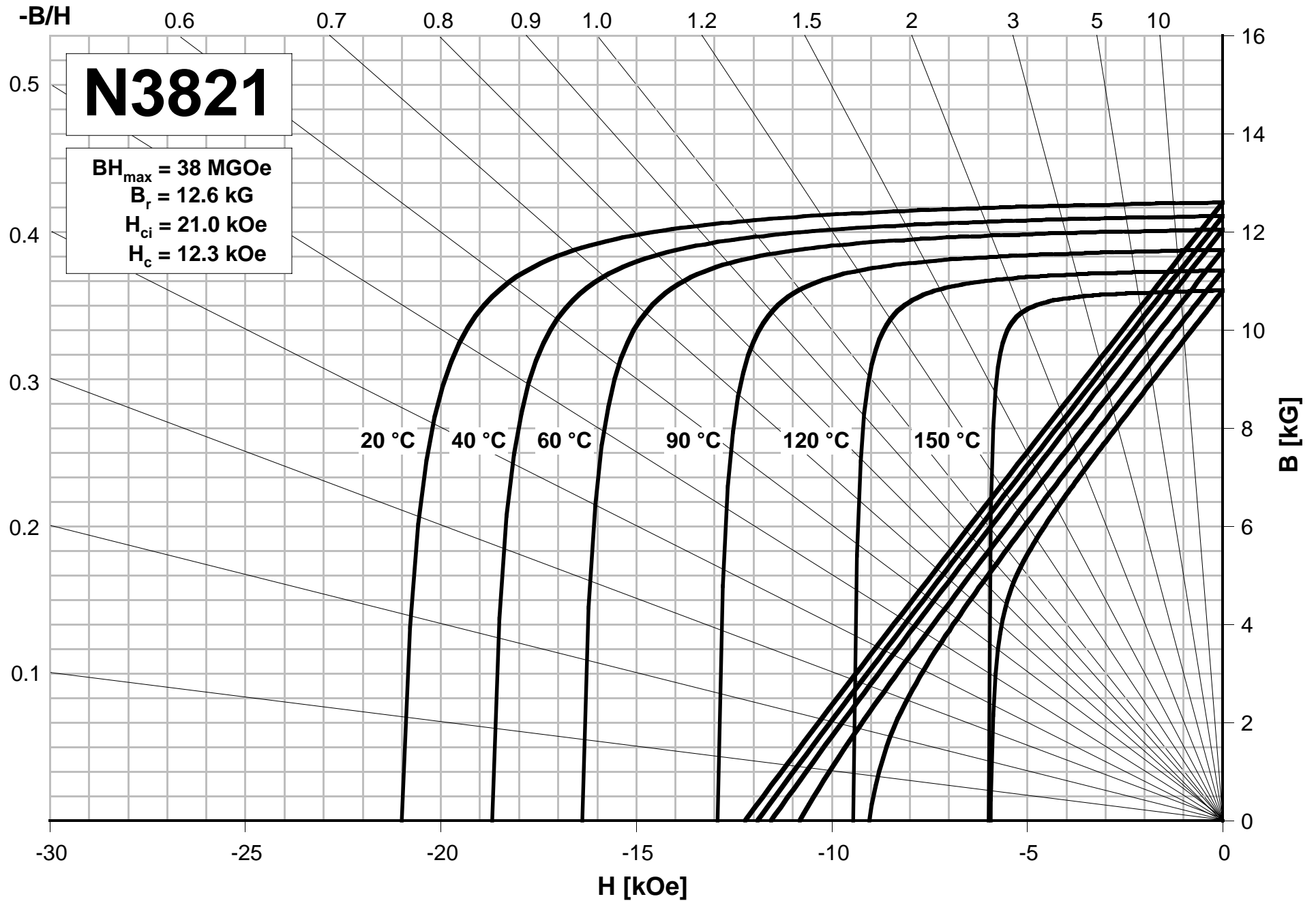
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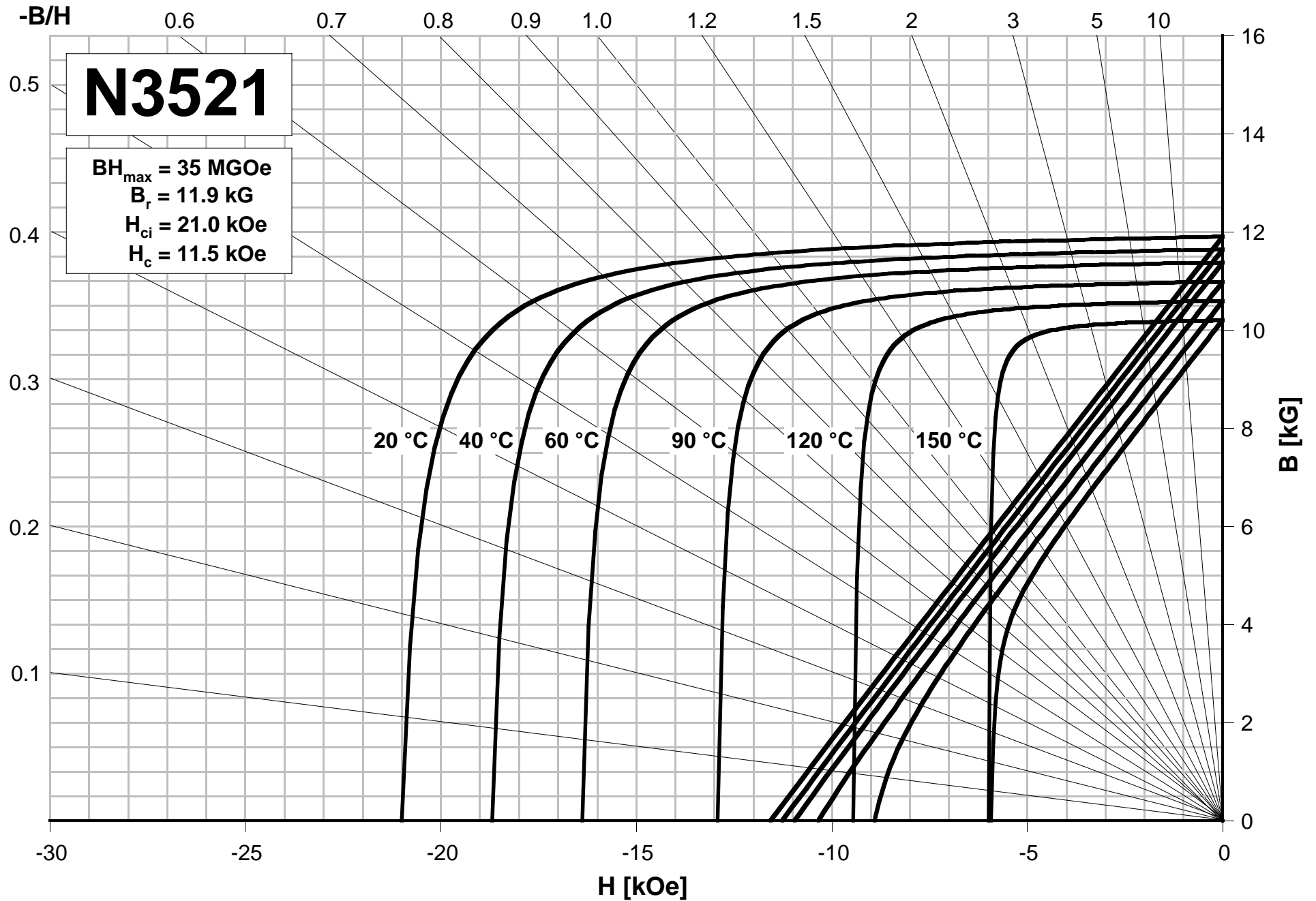
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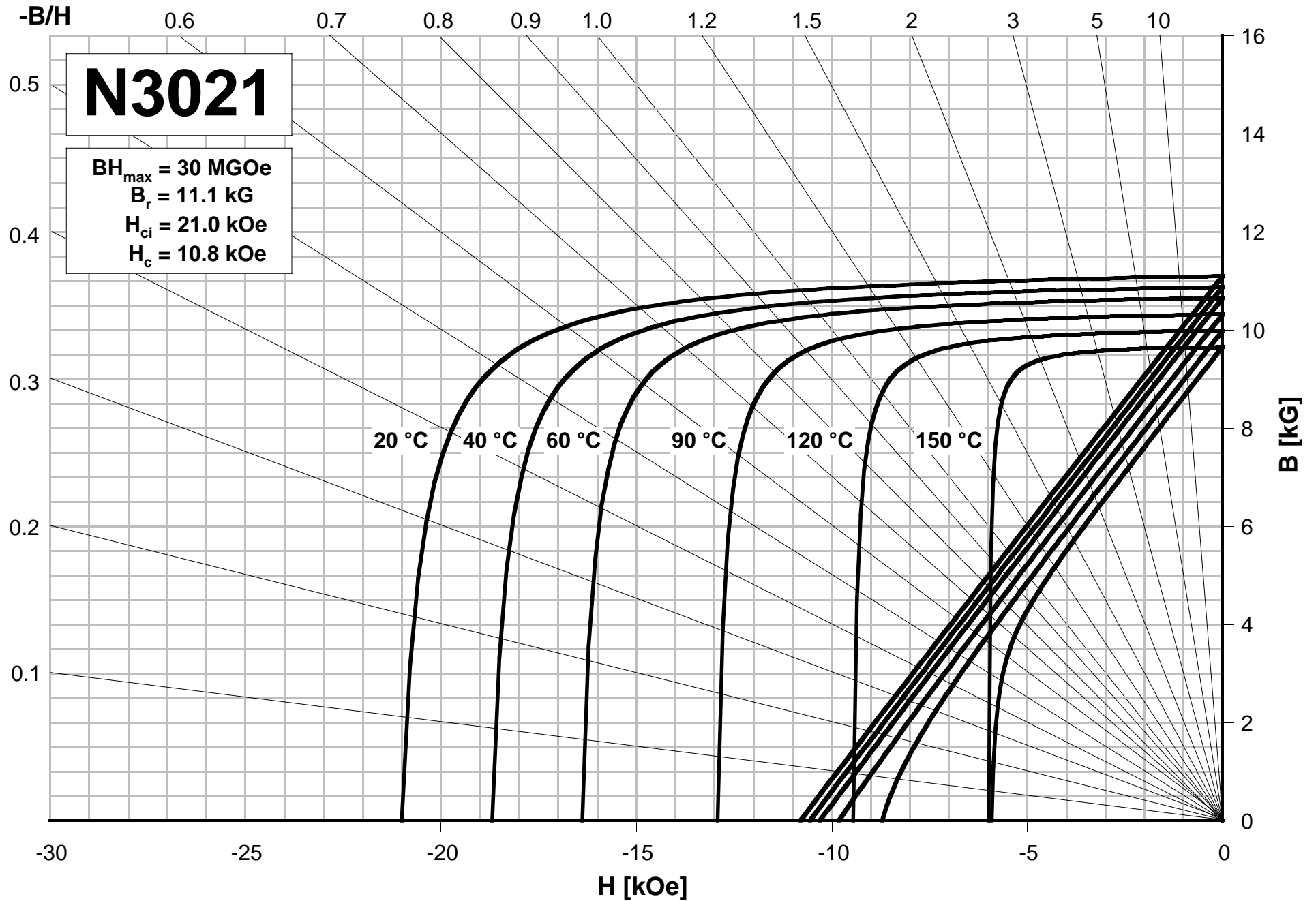
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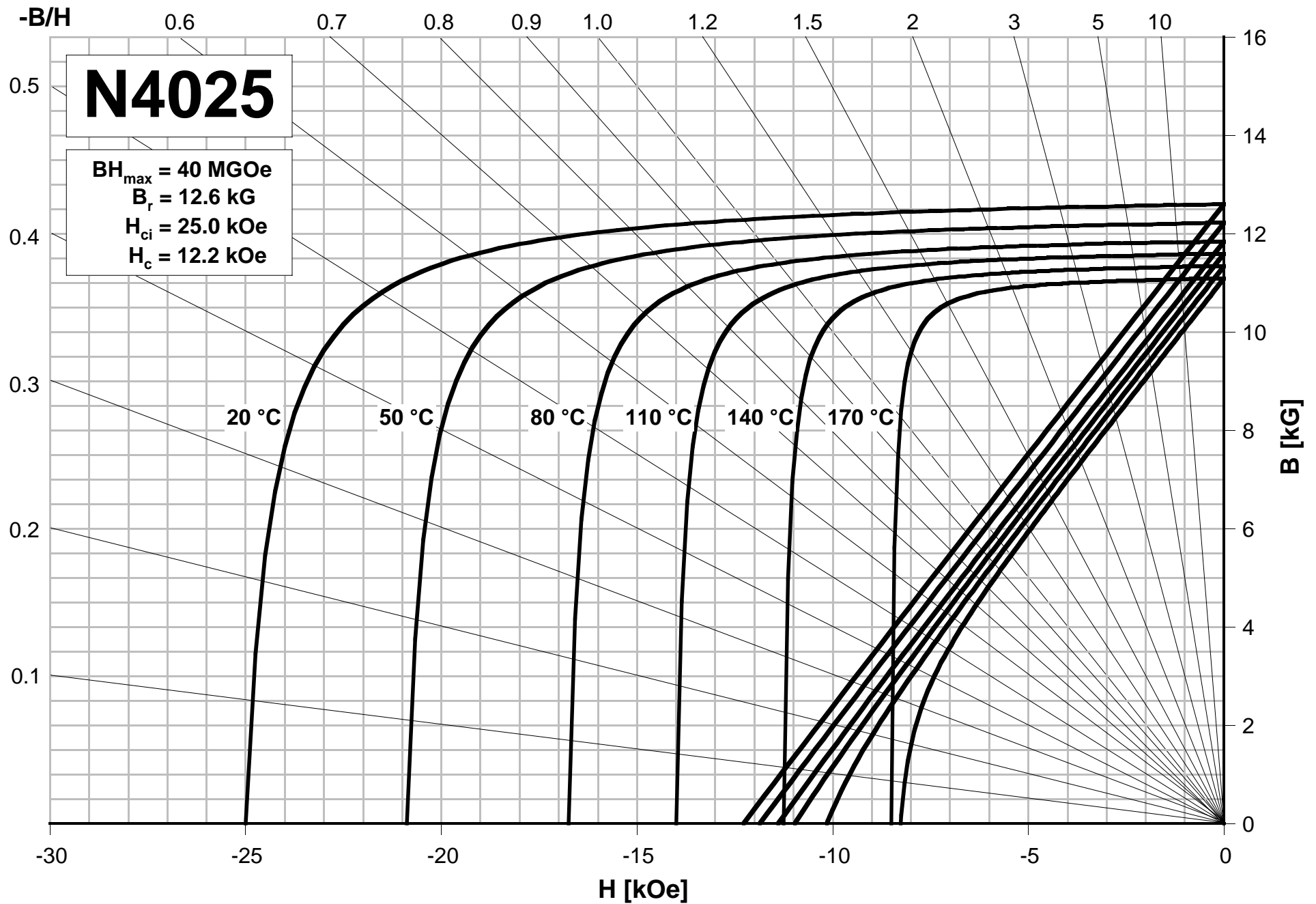
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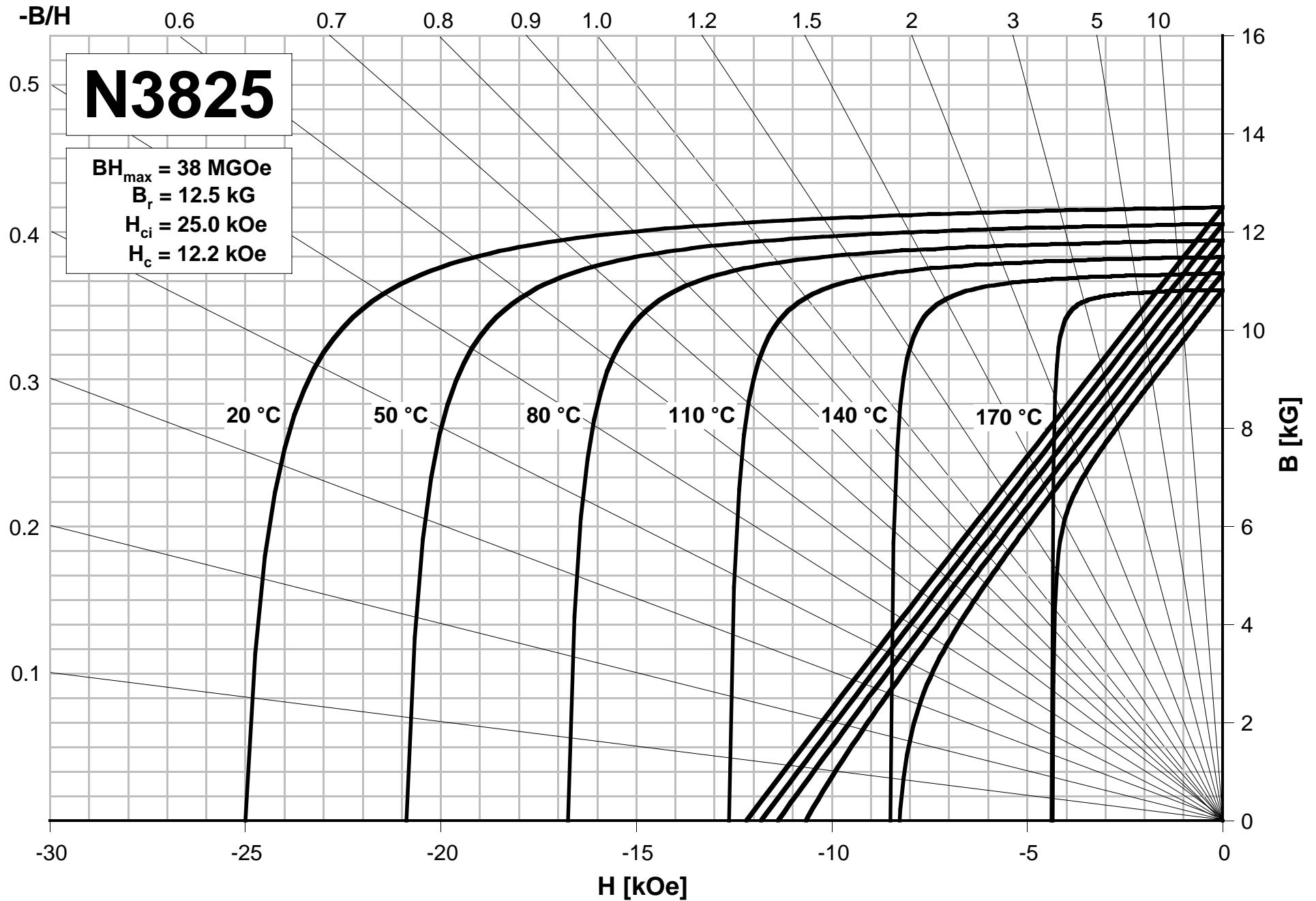
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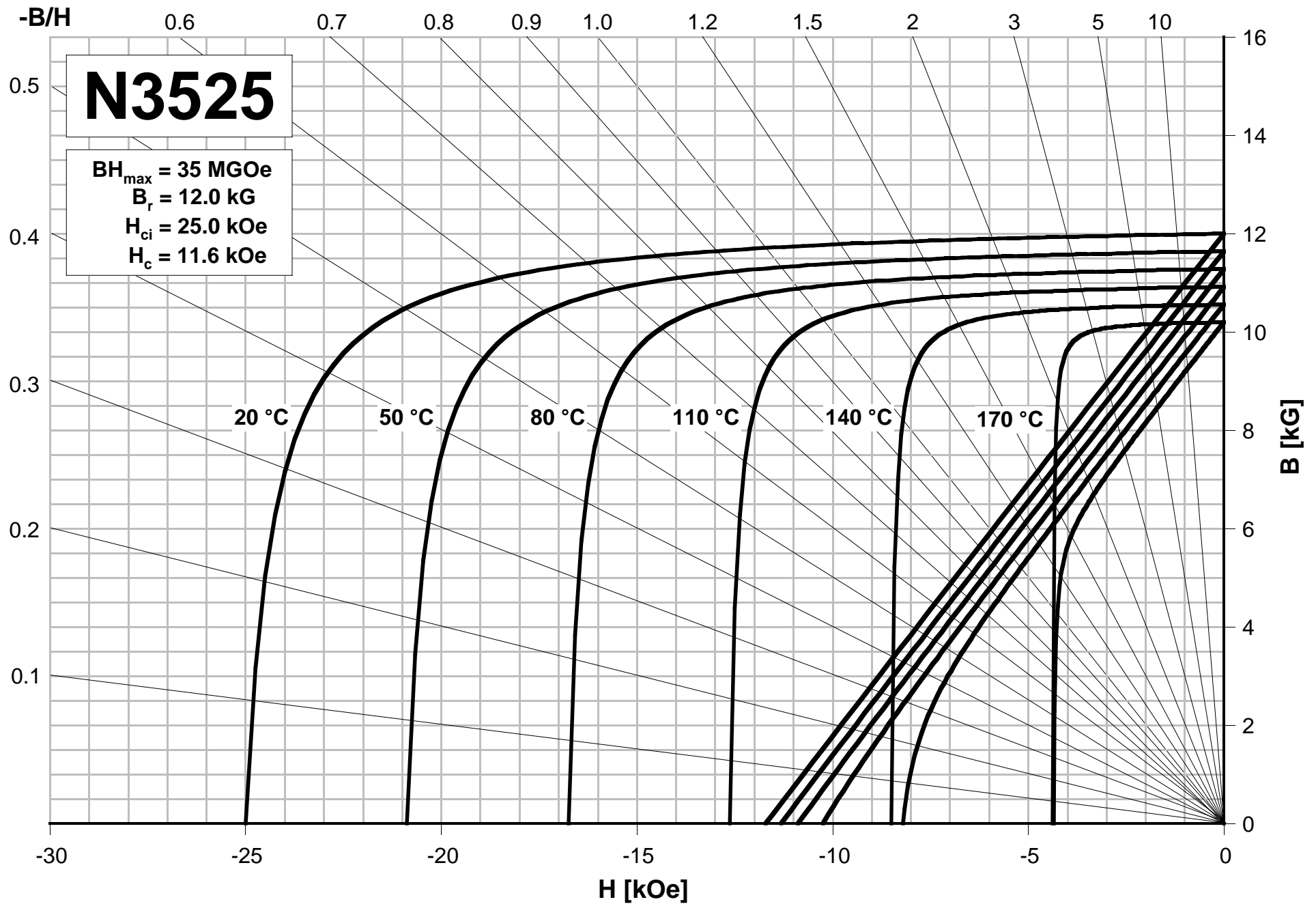
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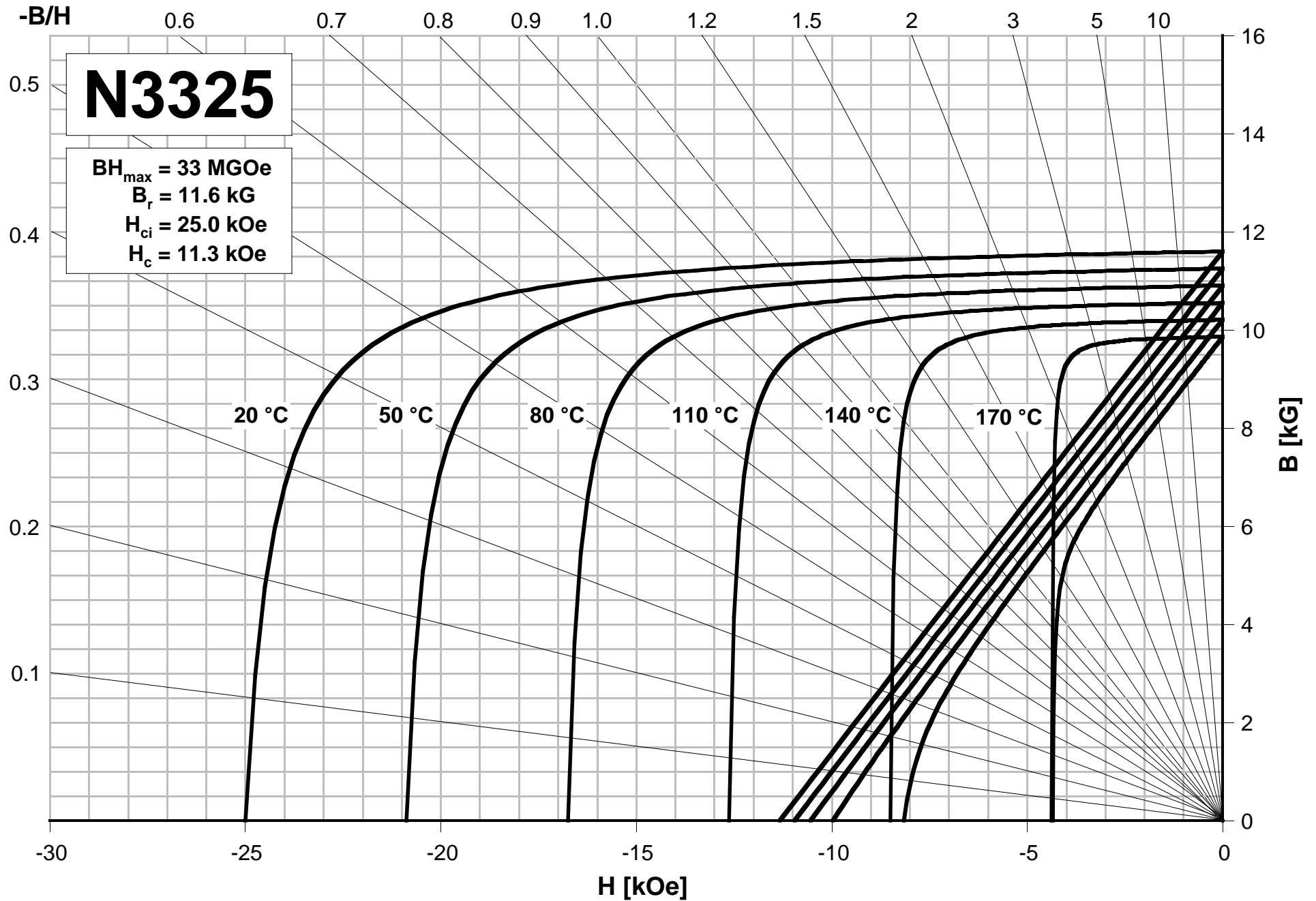
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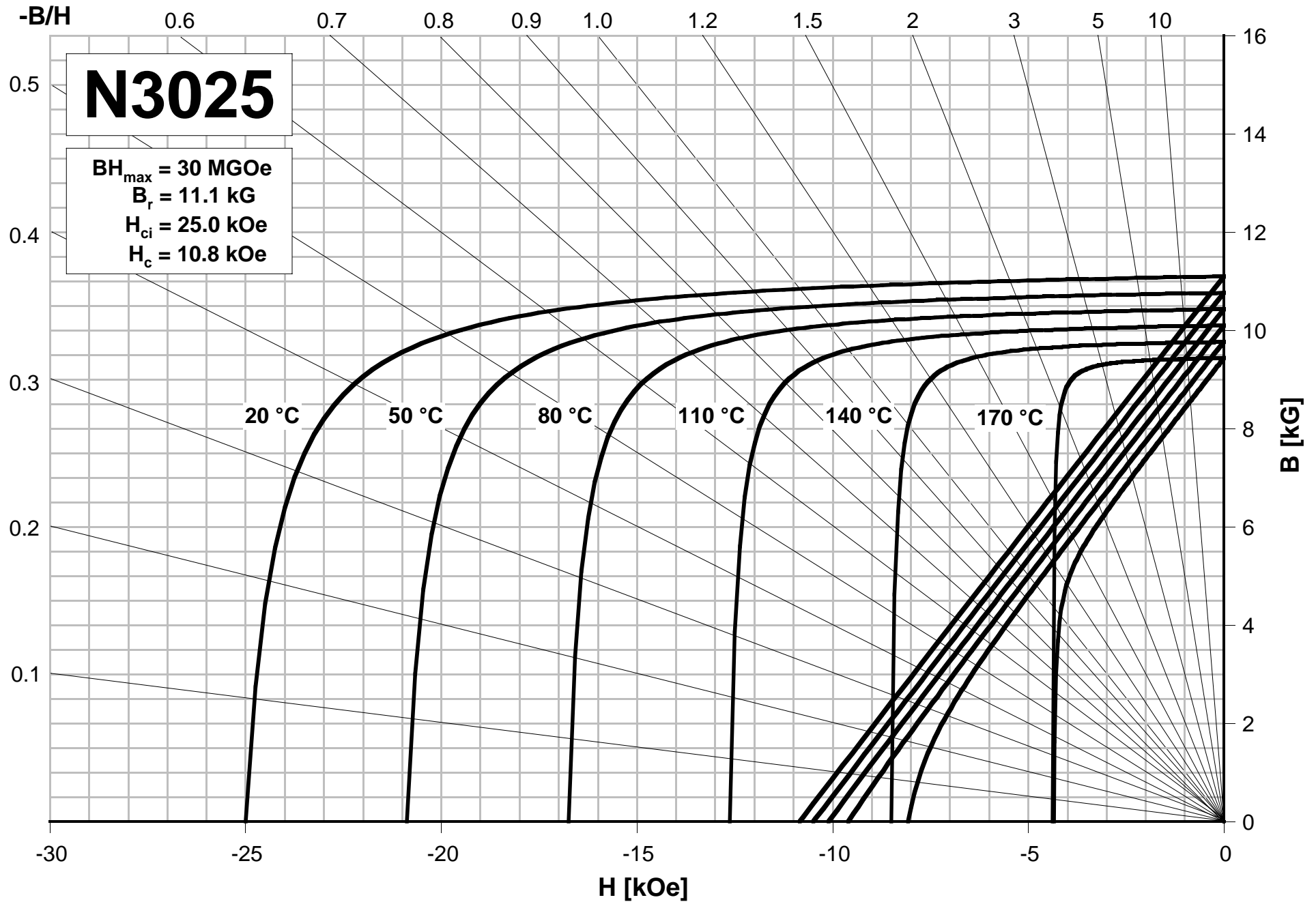
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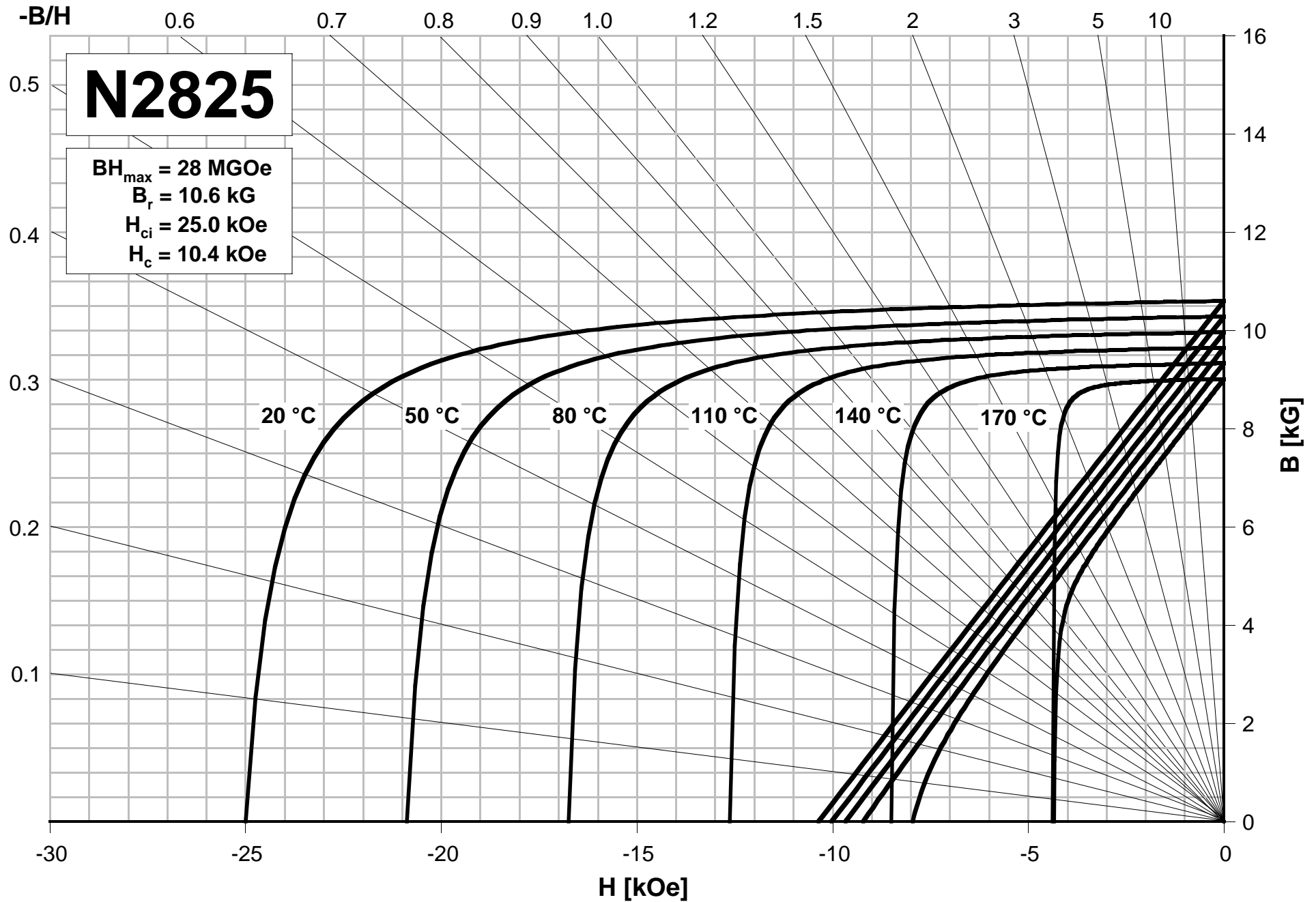
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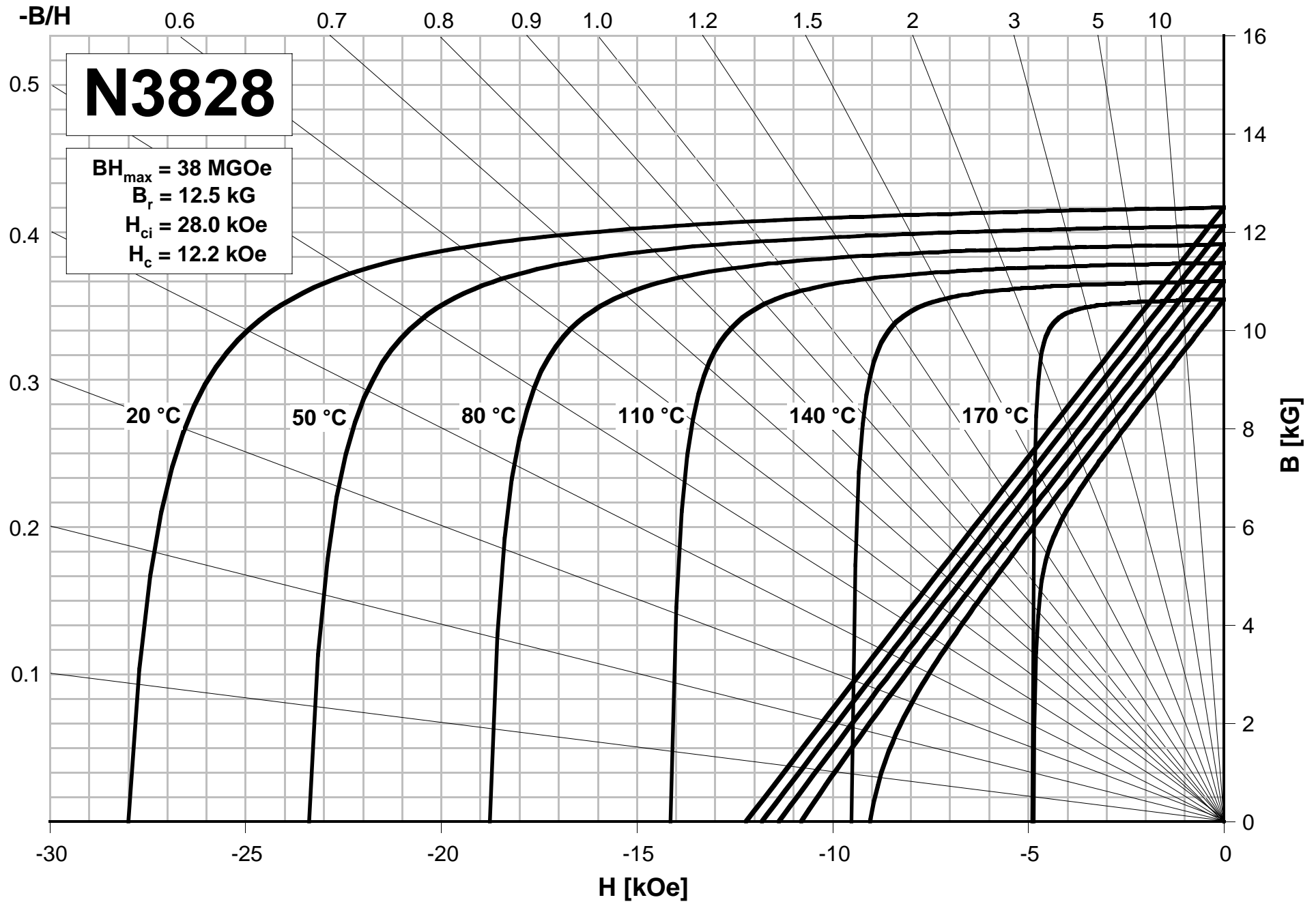
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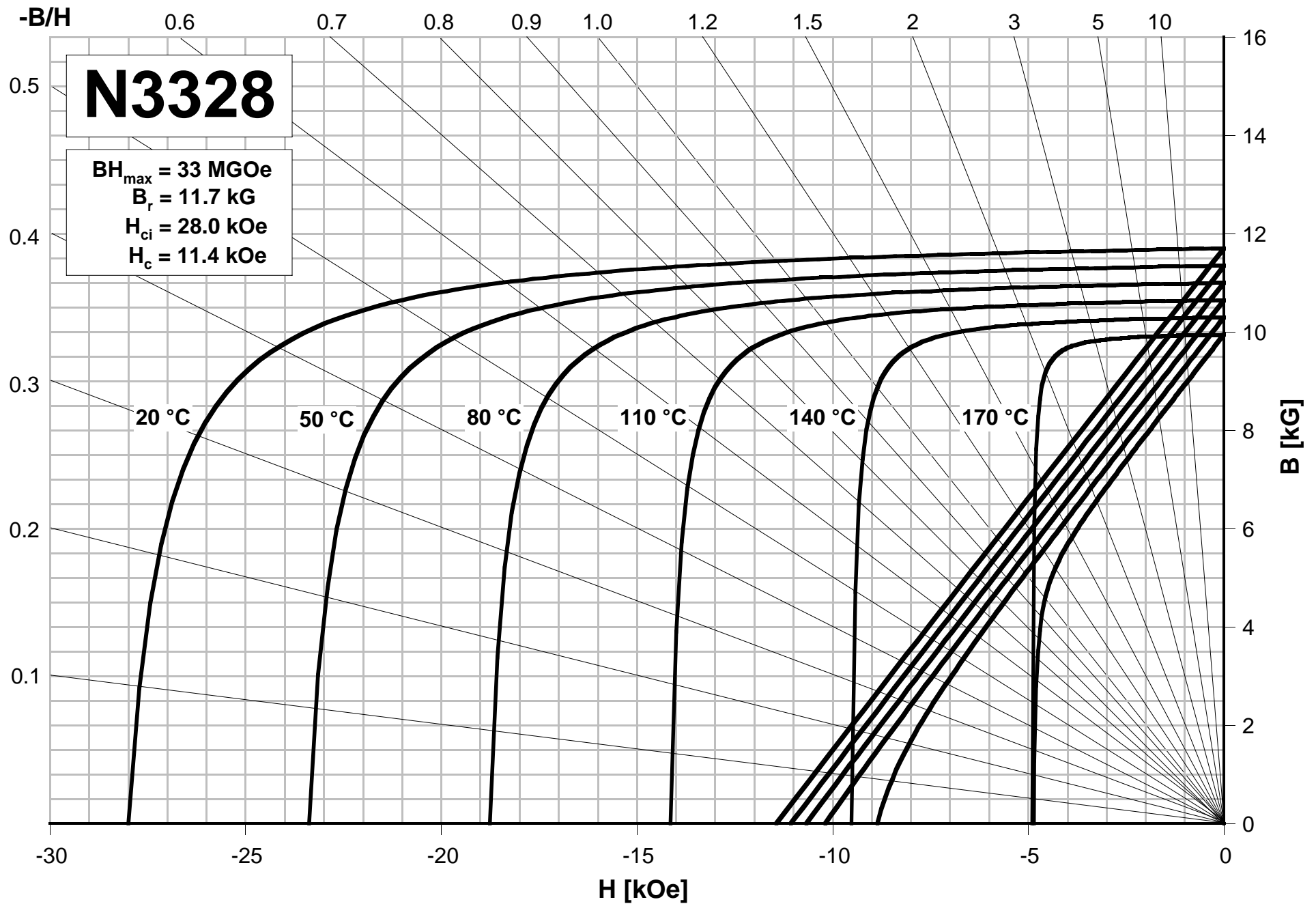
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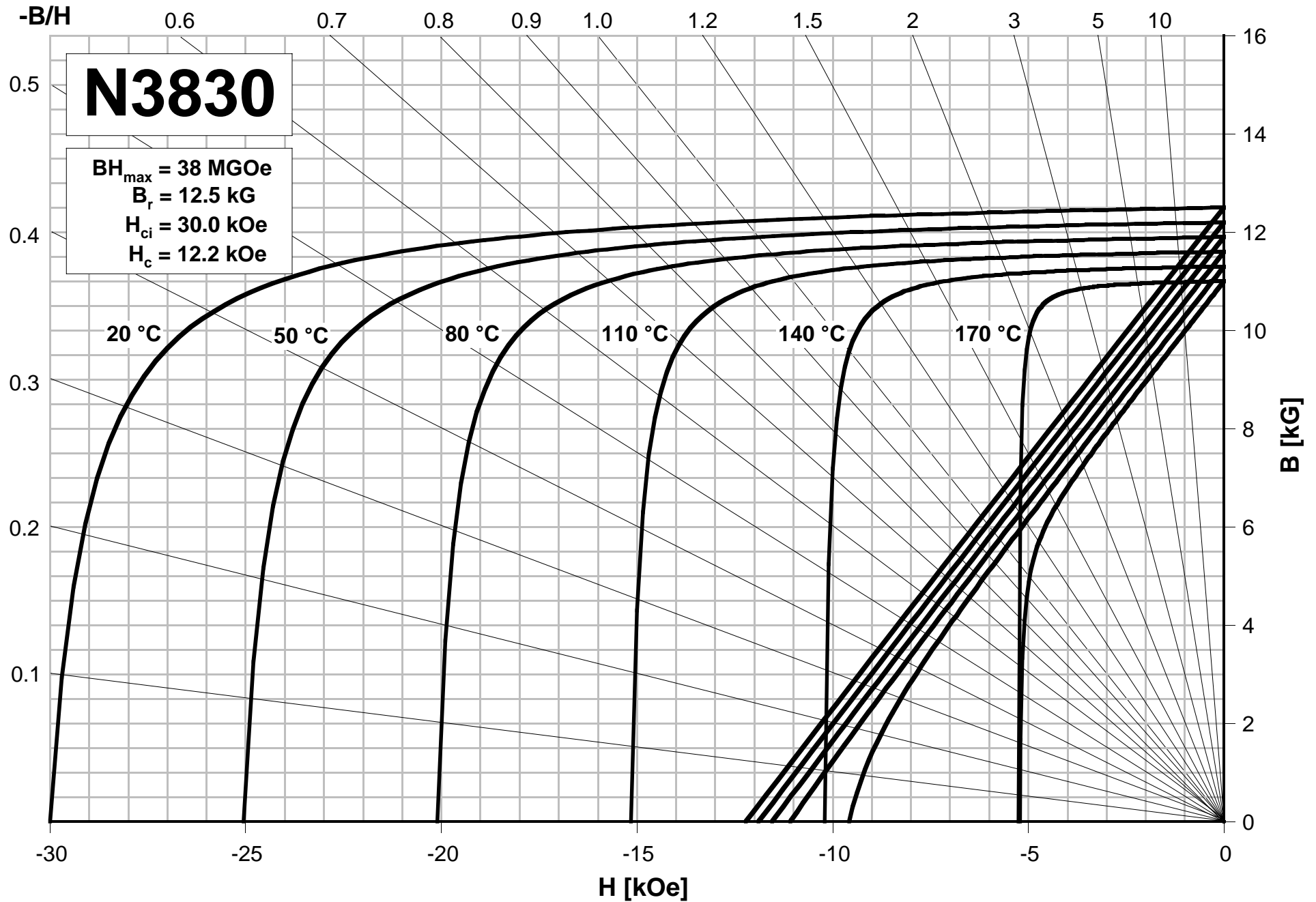
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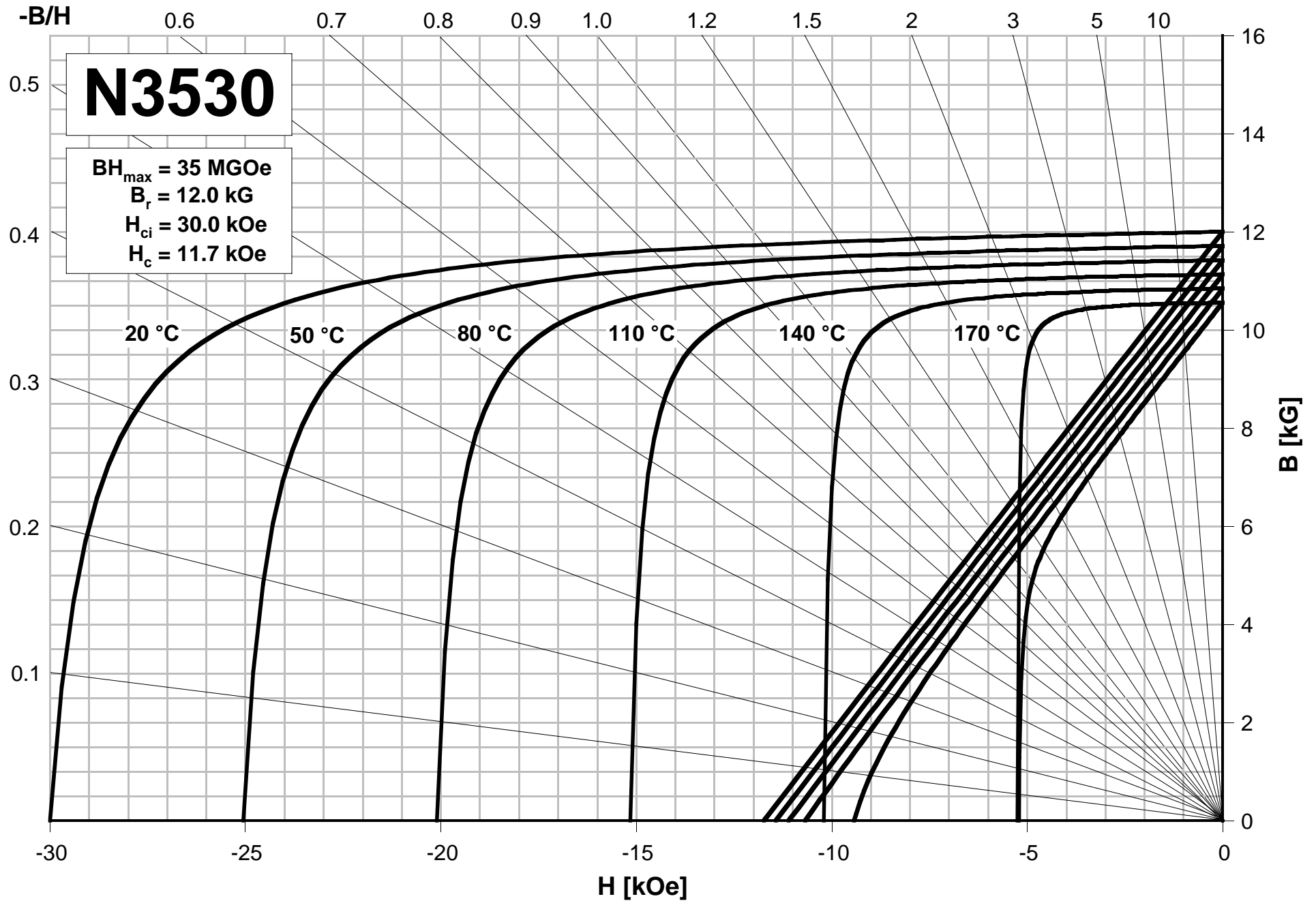
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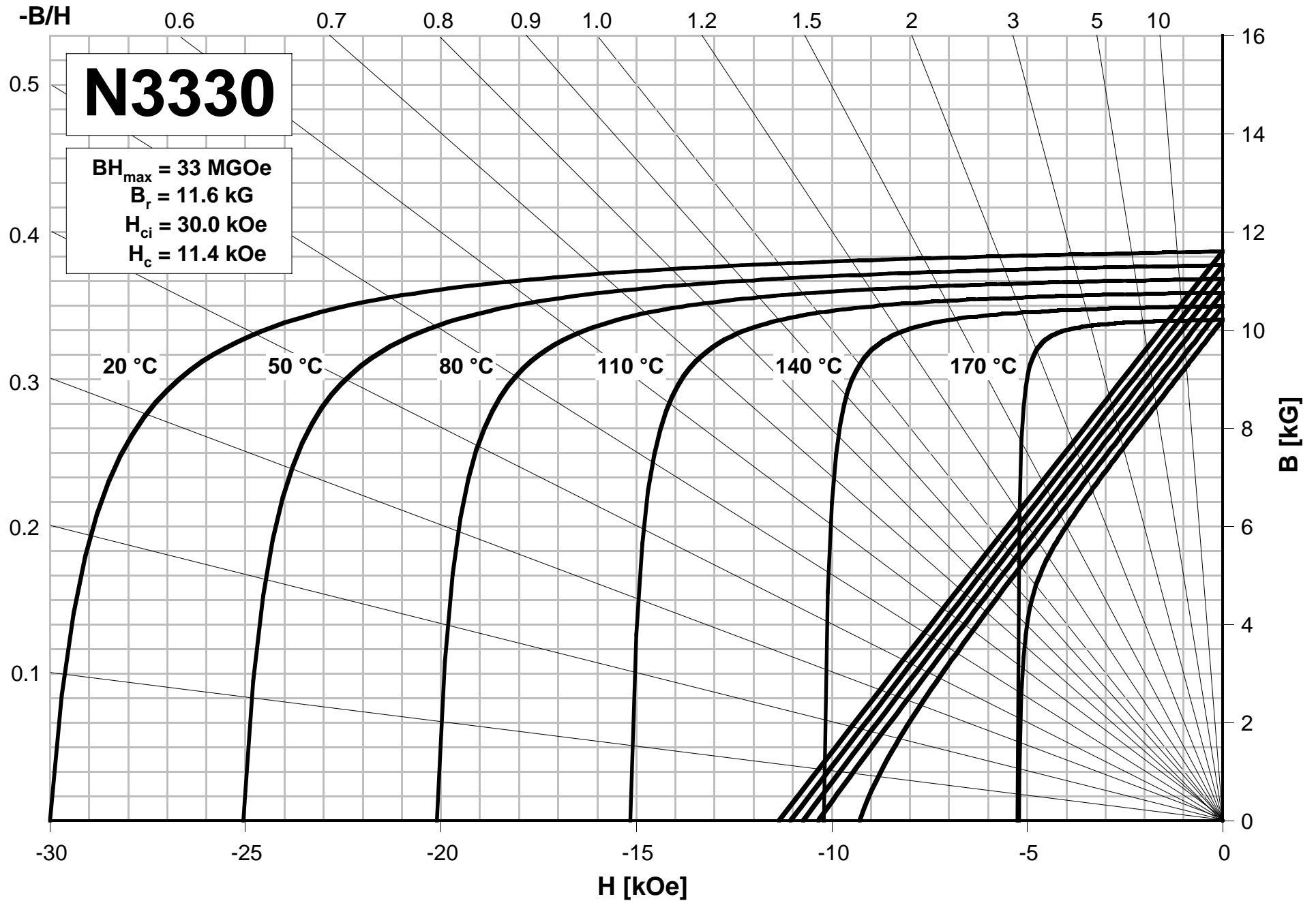
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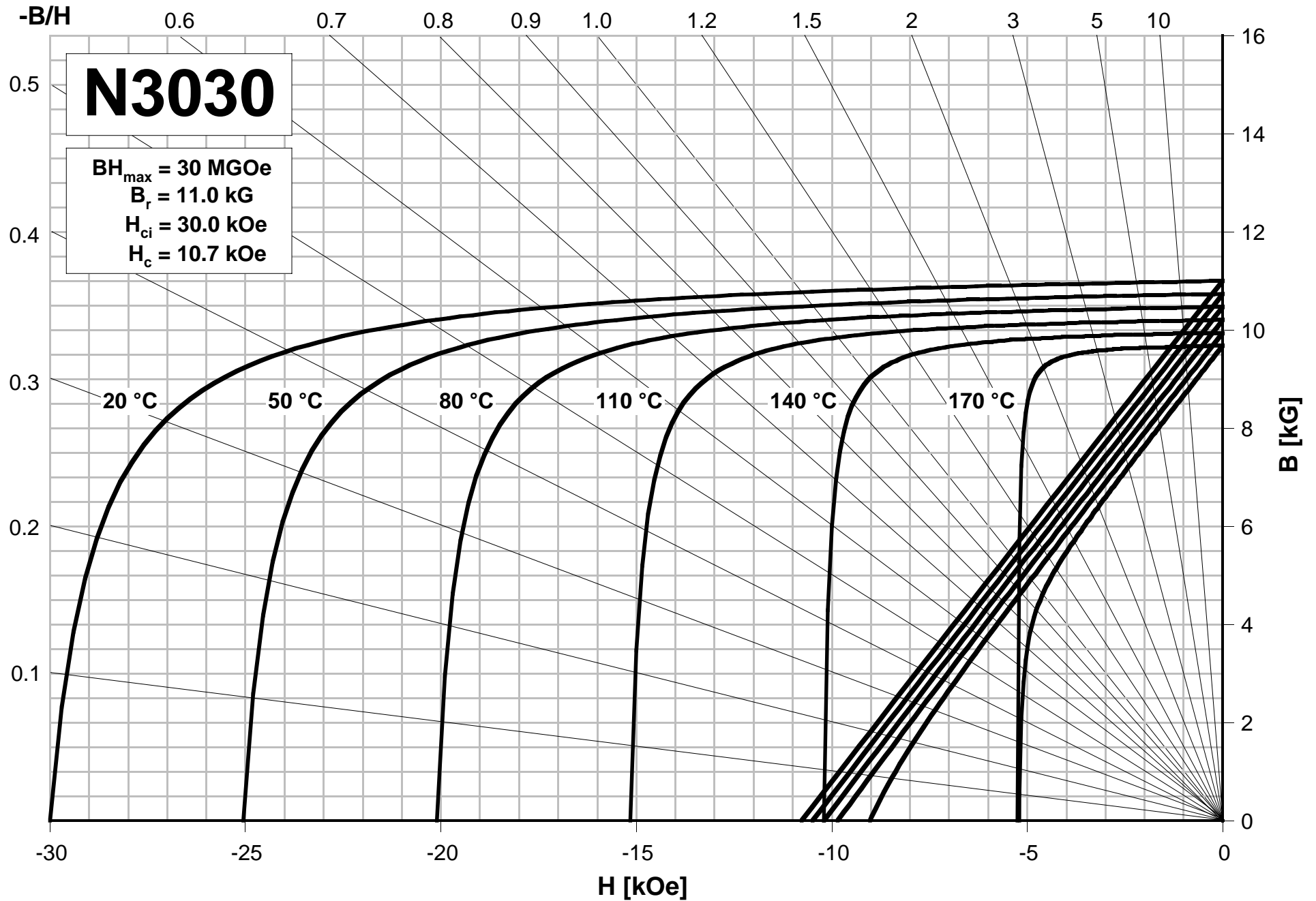
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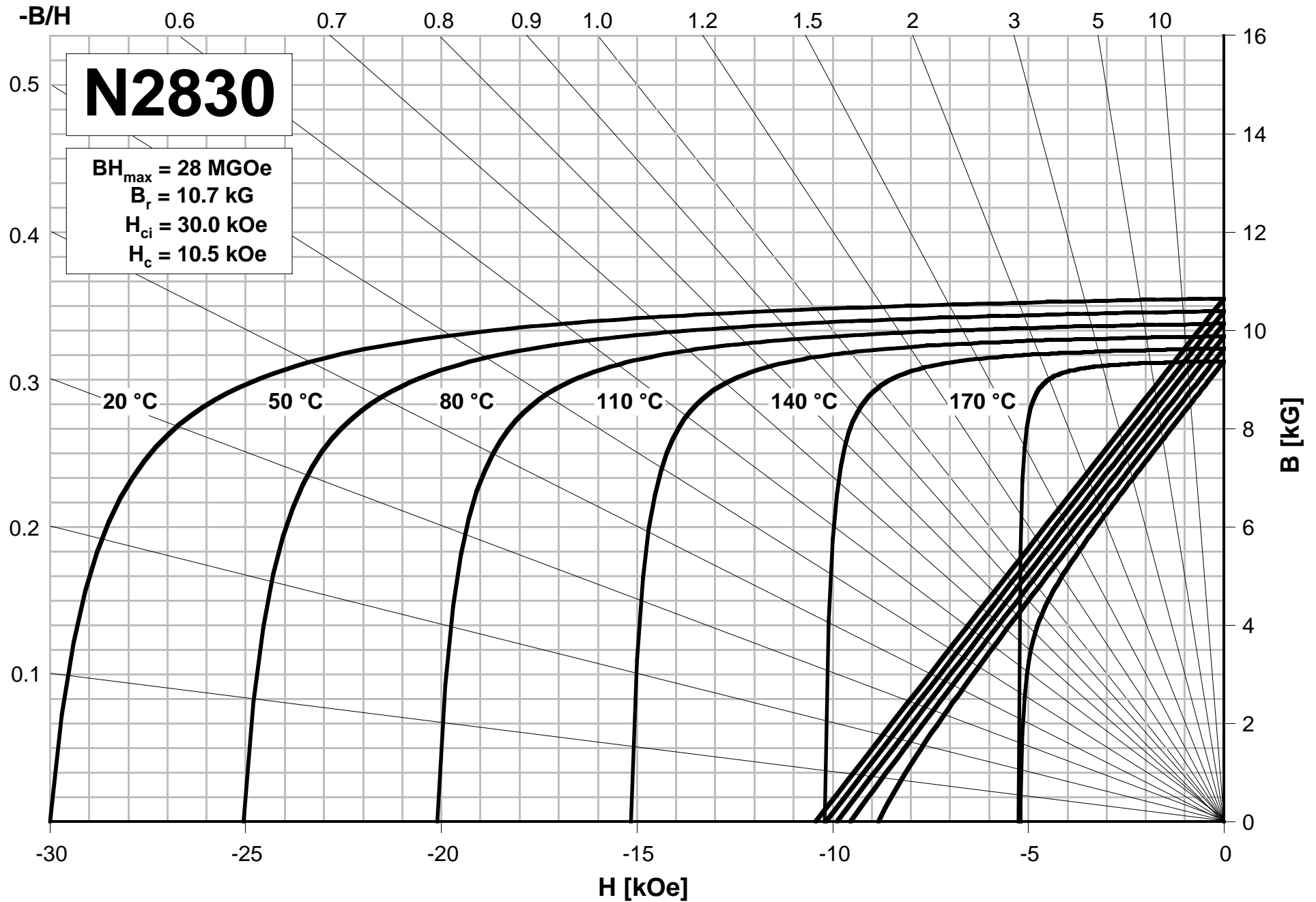
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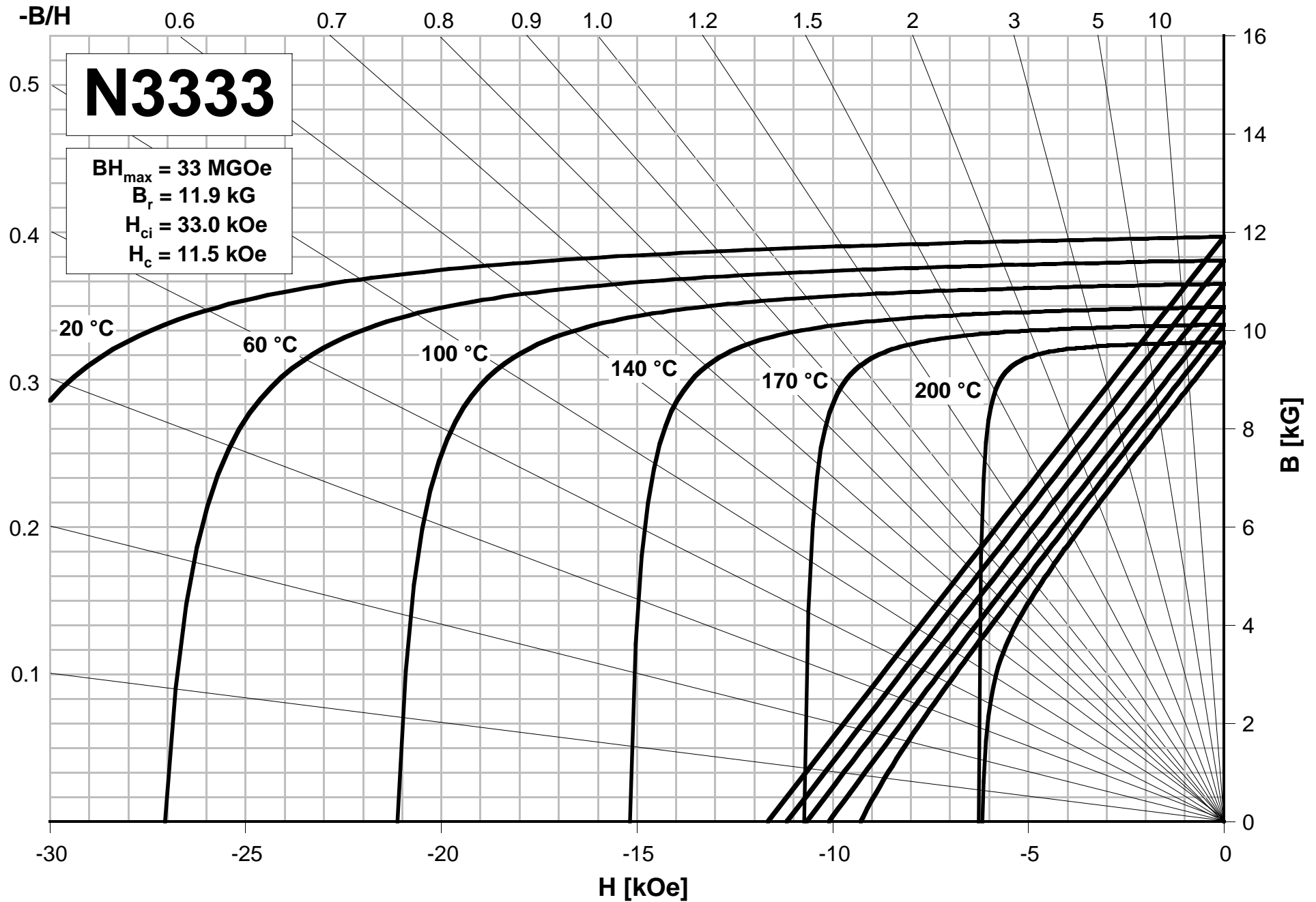
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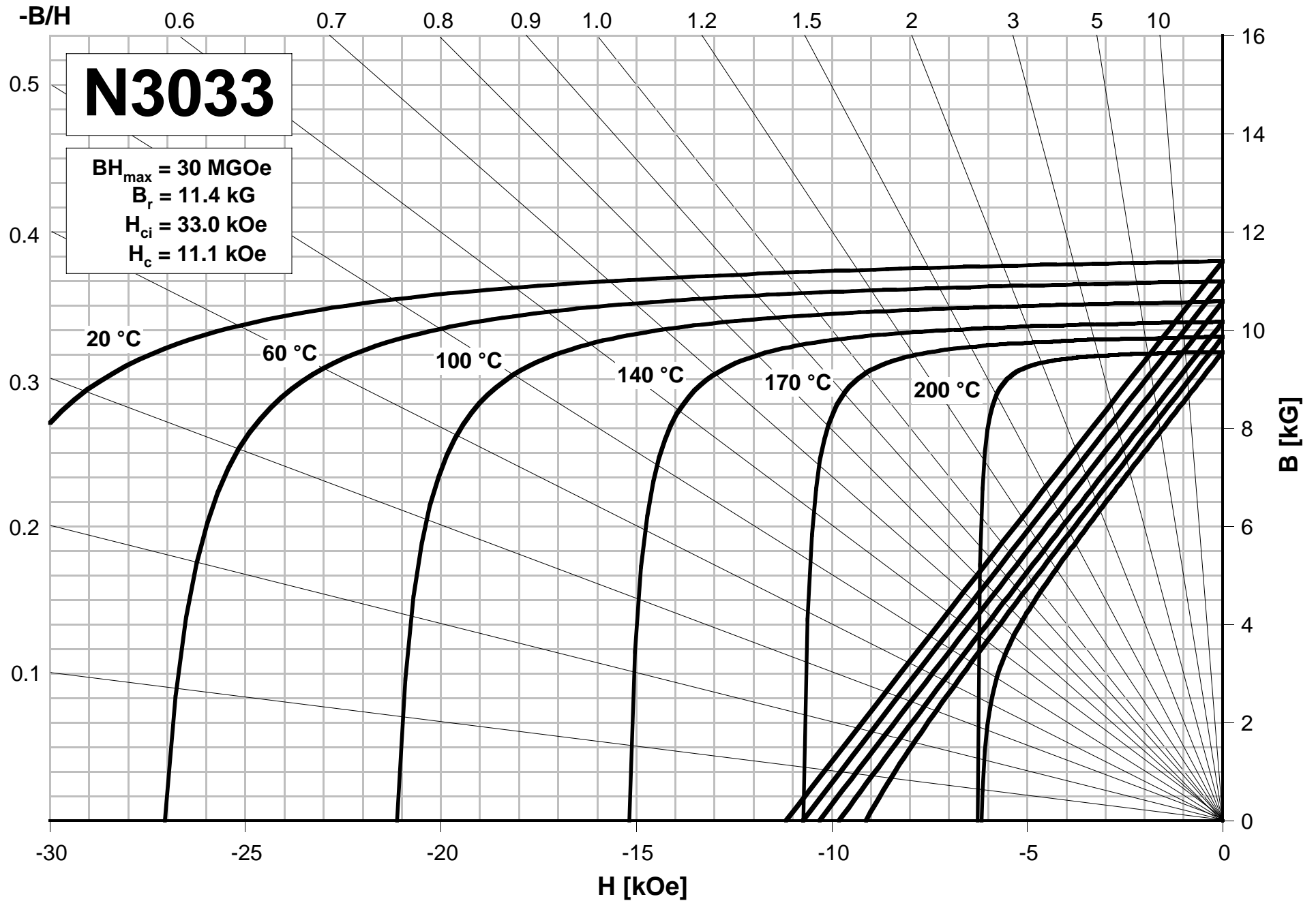
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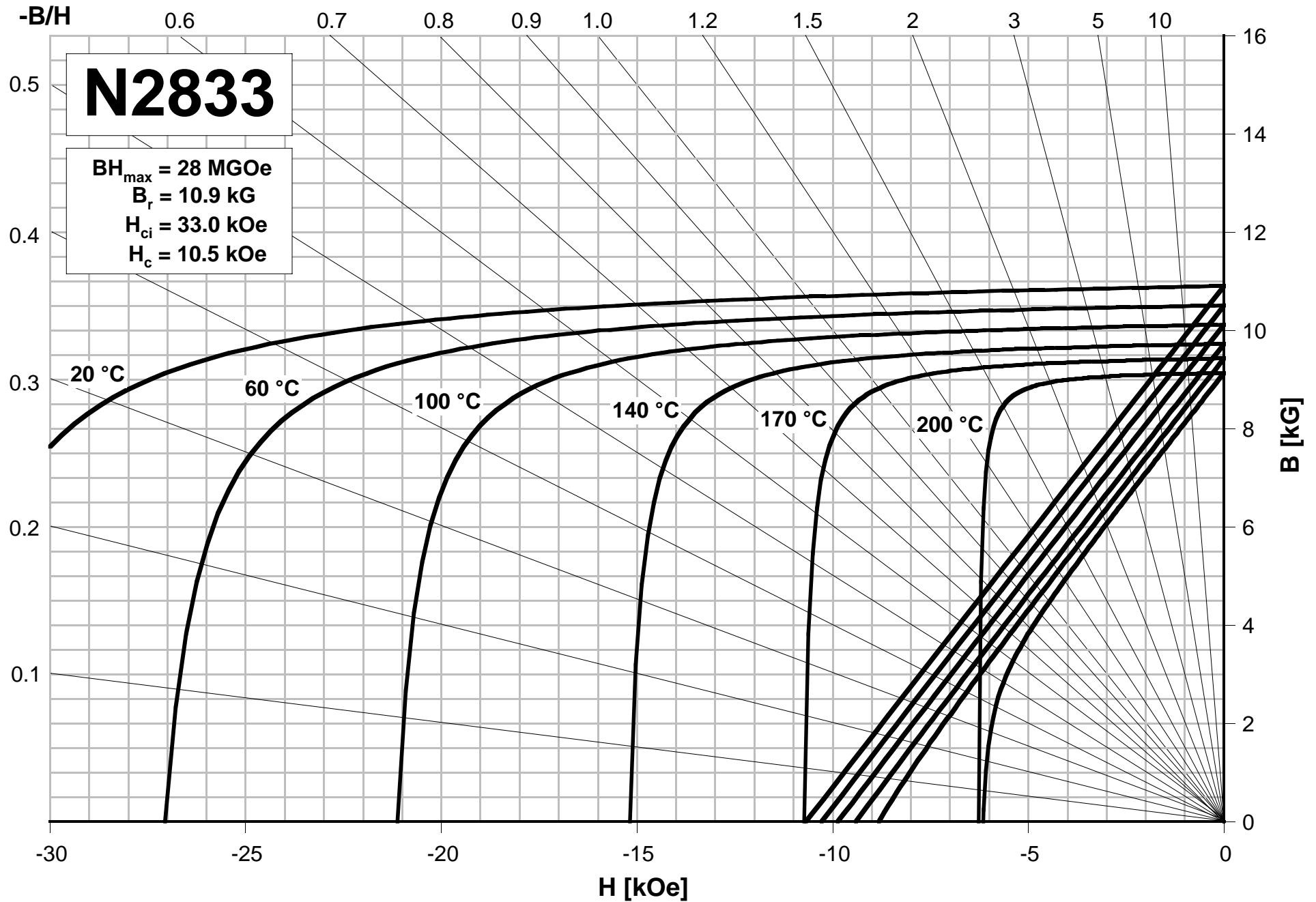
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