

Alnico

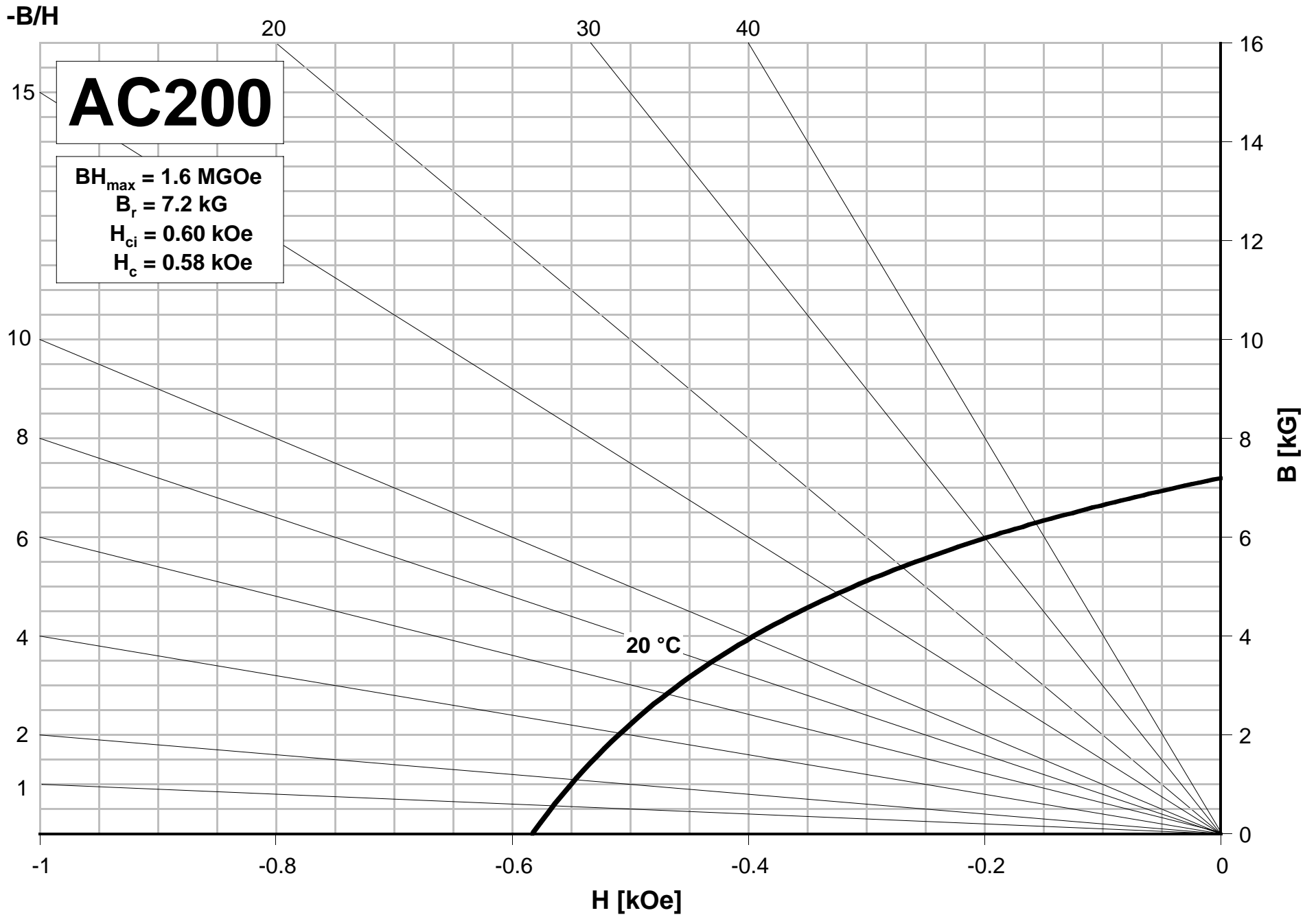


Grade	Maximum Energy Product	Residual Induction	Minimum Intrinsic Coercivity	Coercivity	Maximum Operating Temp	Curie Temp	Coefficient Induction [20-150 °C]	Coefficient Coercivity [20-150 °C]
	BH_{max}	B_r	H_{ci}	H_c	T_{mo}	T_c	α	β
	MGOe	kG	kOe	kOe	°C	°C	% / °C	% / °C
Cast								
AC200	1.6	7.2	0.60	0.58	450	810	-0.03	-0.03
AC300	1.35	7.0	0.50	0.48	450	760	-0.02	-0.02
AC400	1.4	5.5	0.72	0.68	450	760	-0.02	-0.02
AC500	5.5	12.7	0.64	0.64	525	860	-0.02	-0.02
AC570	7.5	13.5	0.74	0.73	525	860	-0.02	-0.02
AC5DG	6.5	13.3	0.67	0.67	525	860	-0.02	-0.02
AC600	3.9	10.5	0.80	0.78	525	860	-0.02	-0.02
AC800	5.5	8.5	1.70	1.62	550	860	-0.03	-0.03
AC8HC	5	7.2	2.17	2.00	550	860	-0.03	-0.03
AC900	10	10.6	1.50	1.48	550	860	-0.03	-0.03
Sintered								
AS200	1.5	7.0	0.57	0.56	450	810	-0.03	-0.03
AS500	3.9	10.8	0.62	0.62	525	860	-0.02	-0.02
AS600	3	9.7	0.78	0.77	525	860	-0.02	-0.02
AS800	4.5	8.0	1.60	1.52	550	860	-0.03	-0.03
AS8HC	4.5	6.7	2.00	1.84	550	860	-0.03	-0.03

Typical Physical Properties - Cast	
Curie Temperature	760 – 860 °C
Coefficient of Thermal Expansion	+11.0 – +13.0 x 10⁻⁶ °C⁻¹
Electrical Resistivity	45 – 75 μΩ·cm
Density	6.9 – 7.3 g·cm⁻³
Rockwell C Hardness	45 – 55 H_{RC}
Tensile Strength	0.02 – 0.15 kN·mm⁻²
Transverse Modulus of Rupture	0.05 – 0.30 kN·mm⁻²
Typical Physical Properties - Sintered	
Curie Temperature	810 – 860 °C
Coefficient of Thermal Expansion	+11.0 – +12.4 x 10⁻⁶ °C⁻¹
Electrical Resistivity	50 – 70 μΩ·cm
Density	6.8 – 7.0 g·cm⁻³
Rockwell C Hardness	45 H_{RC}
Tensile Strength	0.35 – 0.45 kN·mm⁻²
Transverse Modulus of Rupture	0.35 – 0.76 kN·mm⁻²

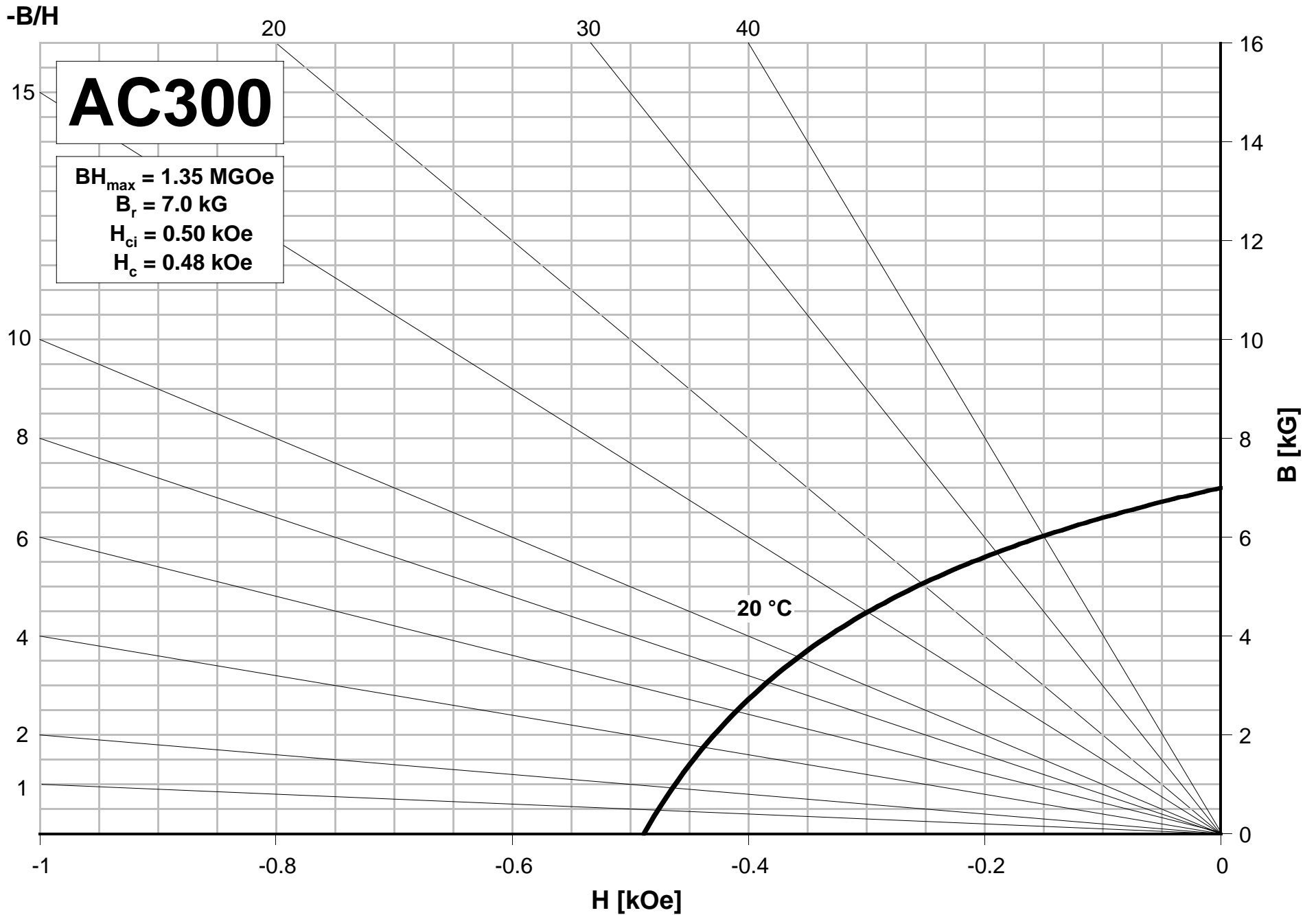
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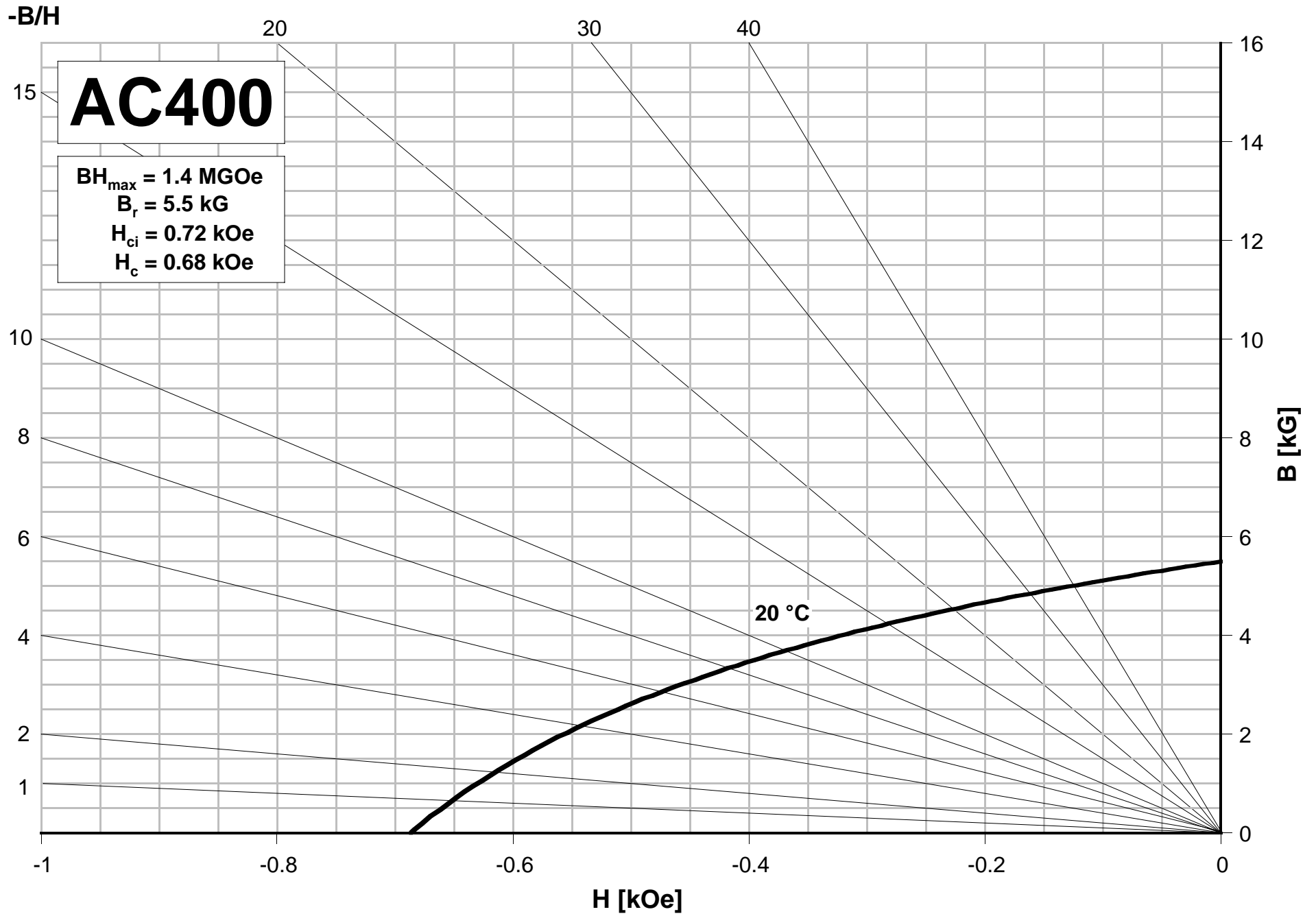
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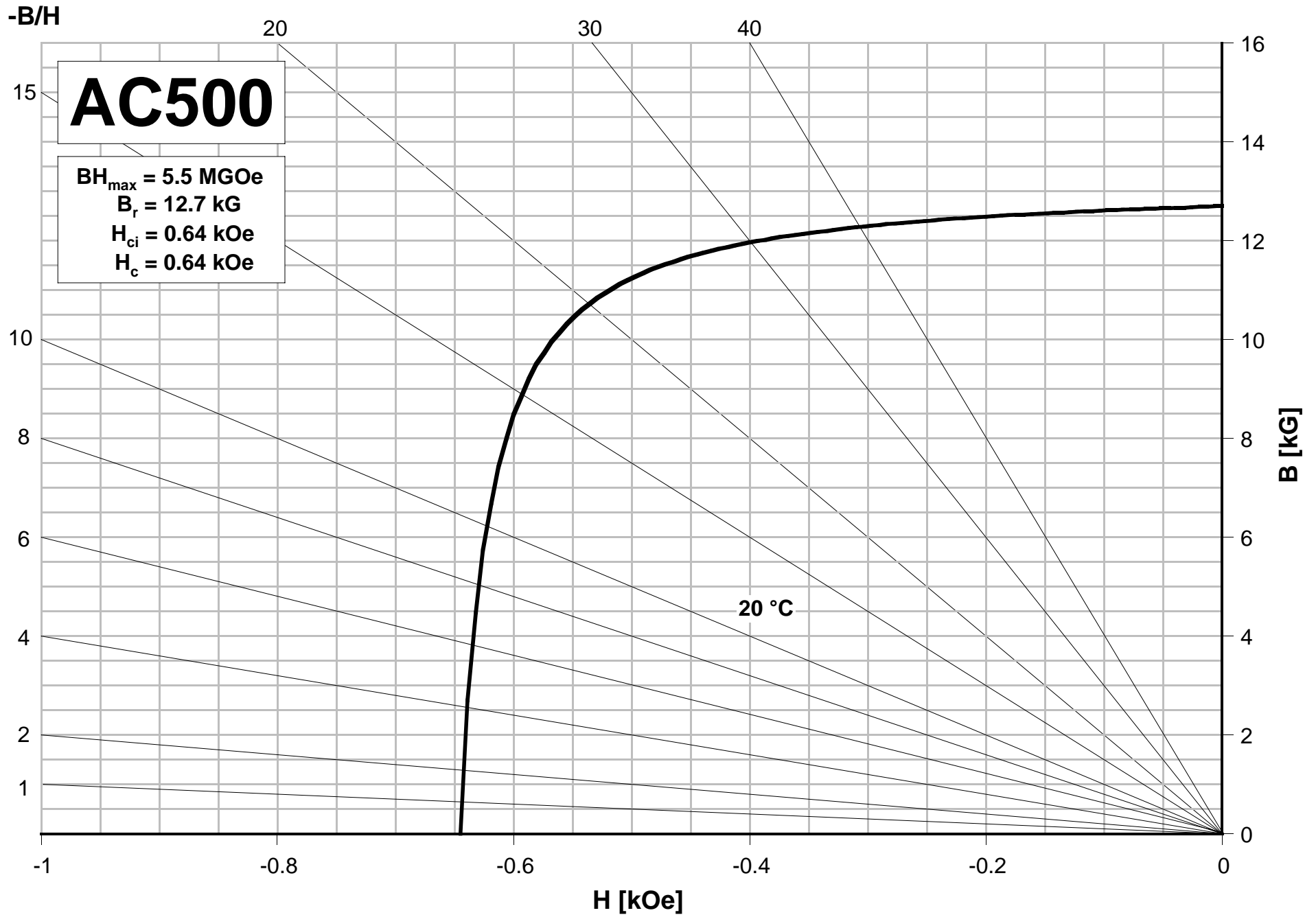
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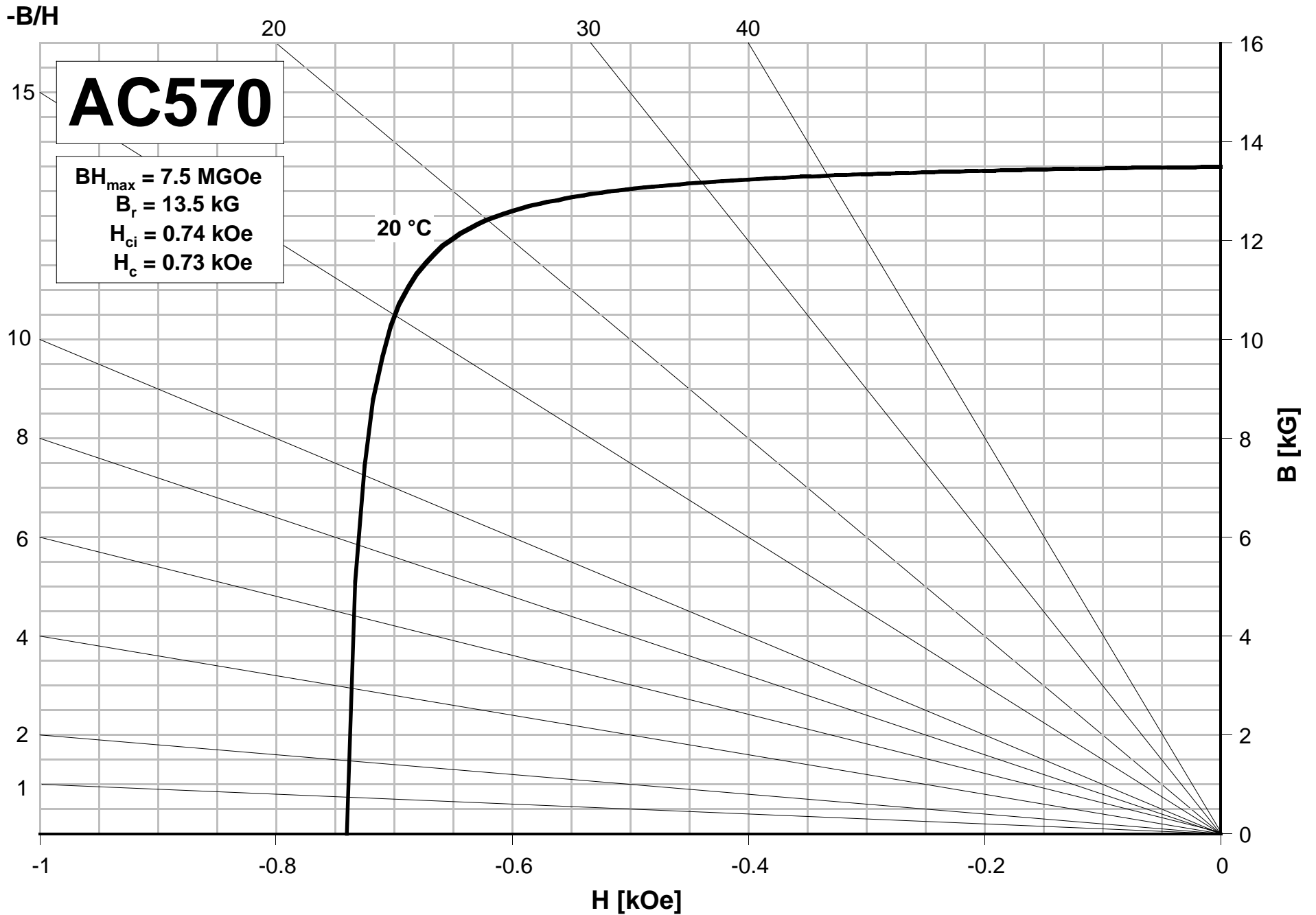
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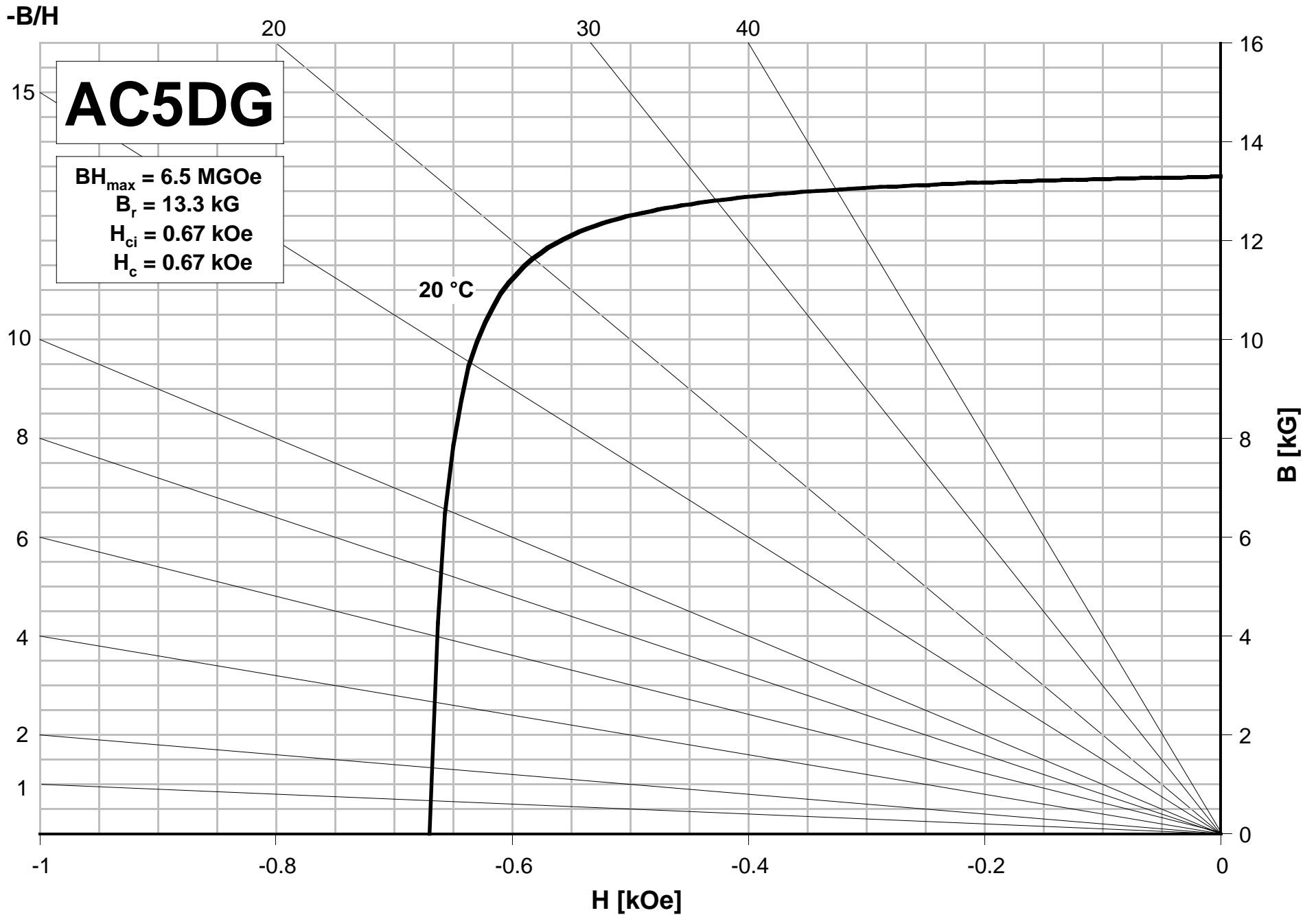
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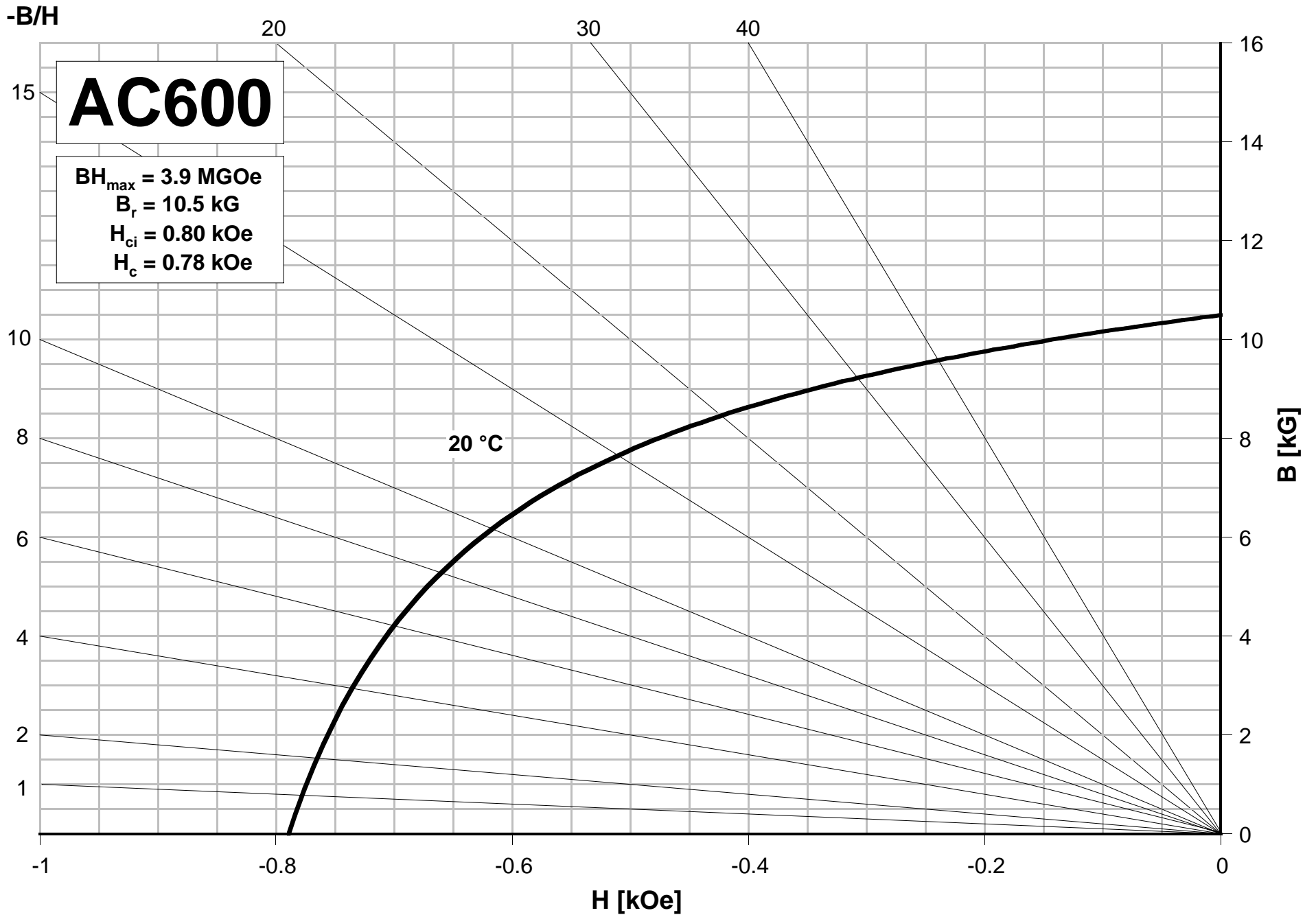
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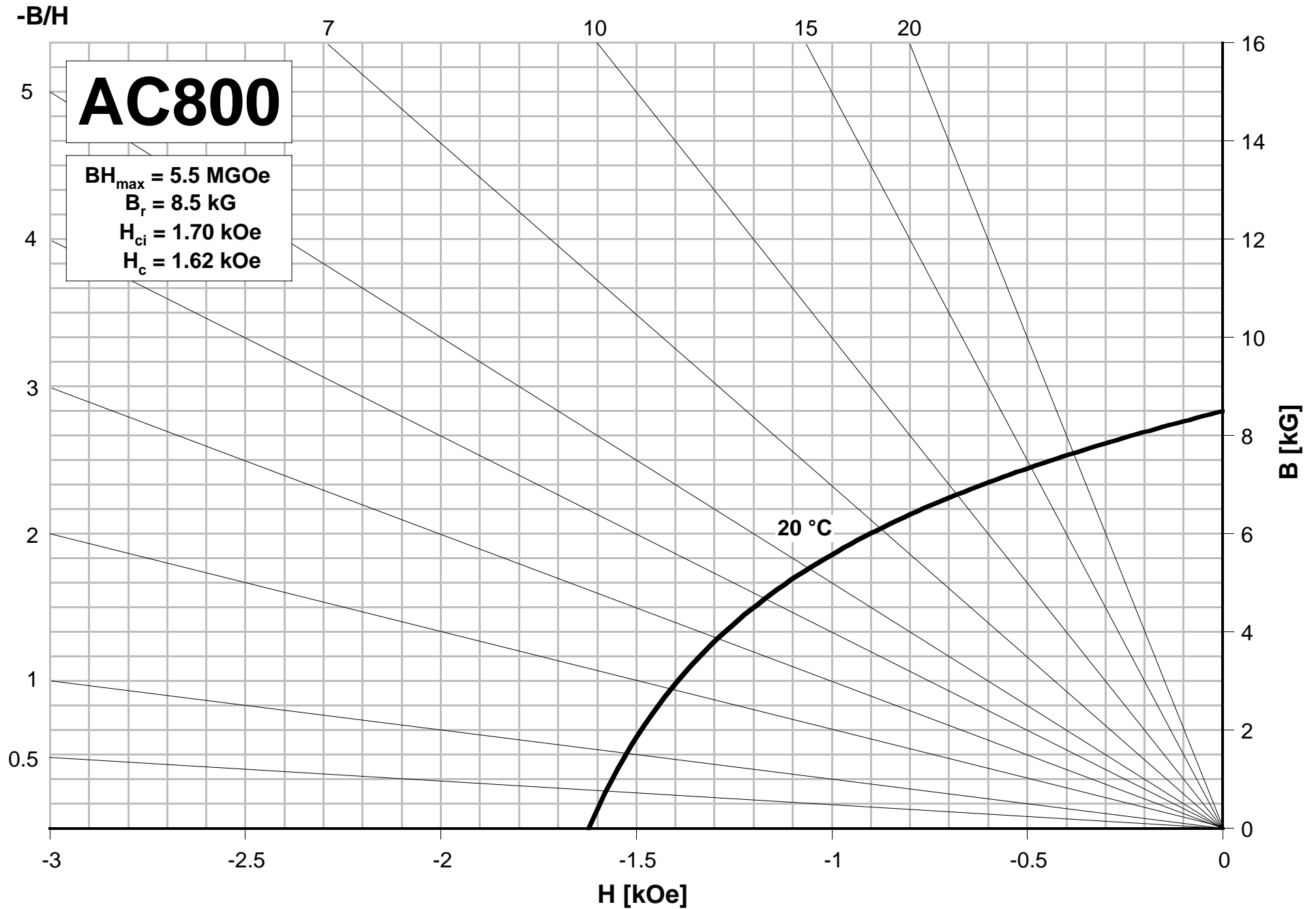
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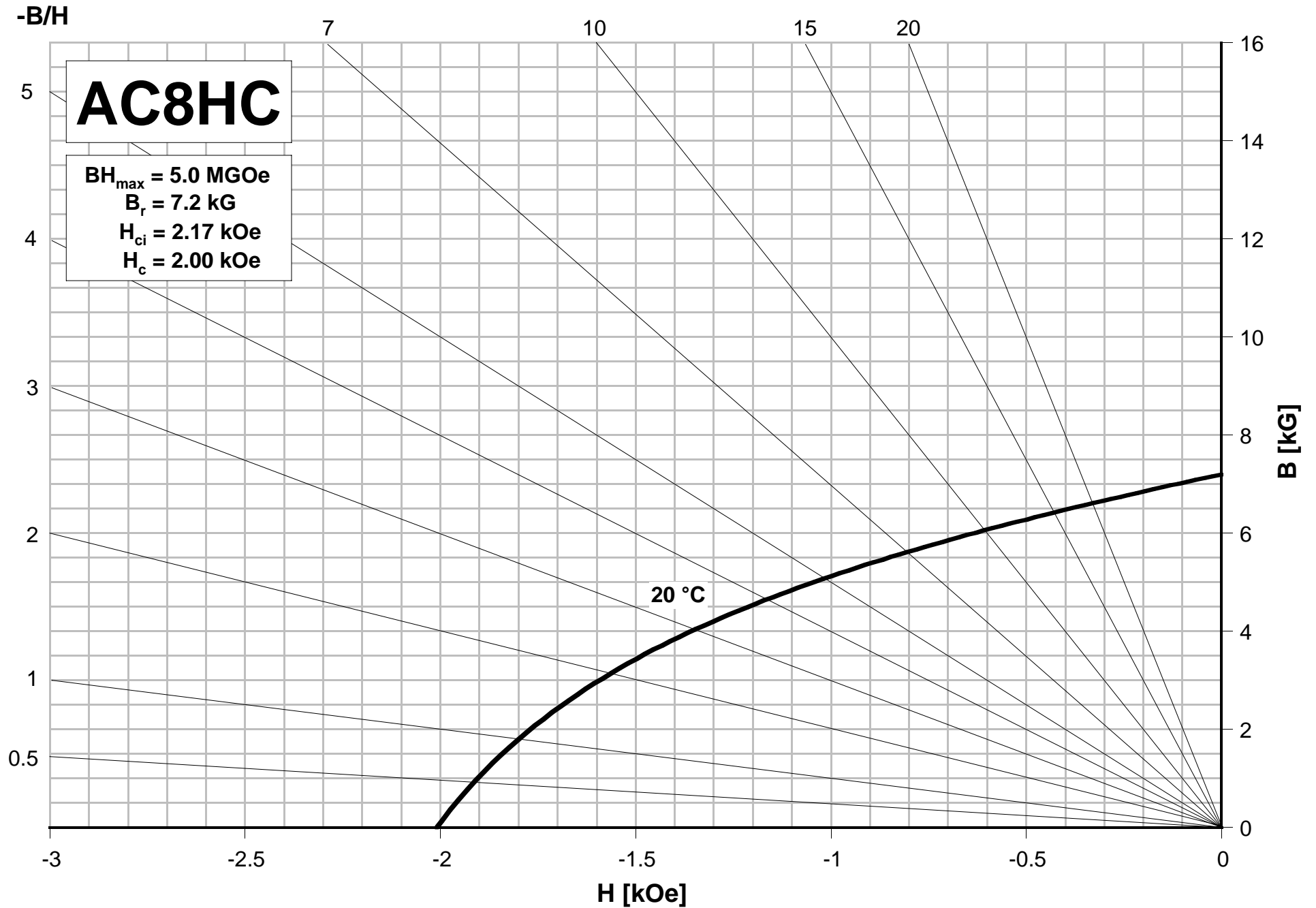
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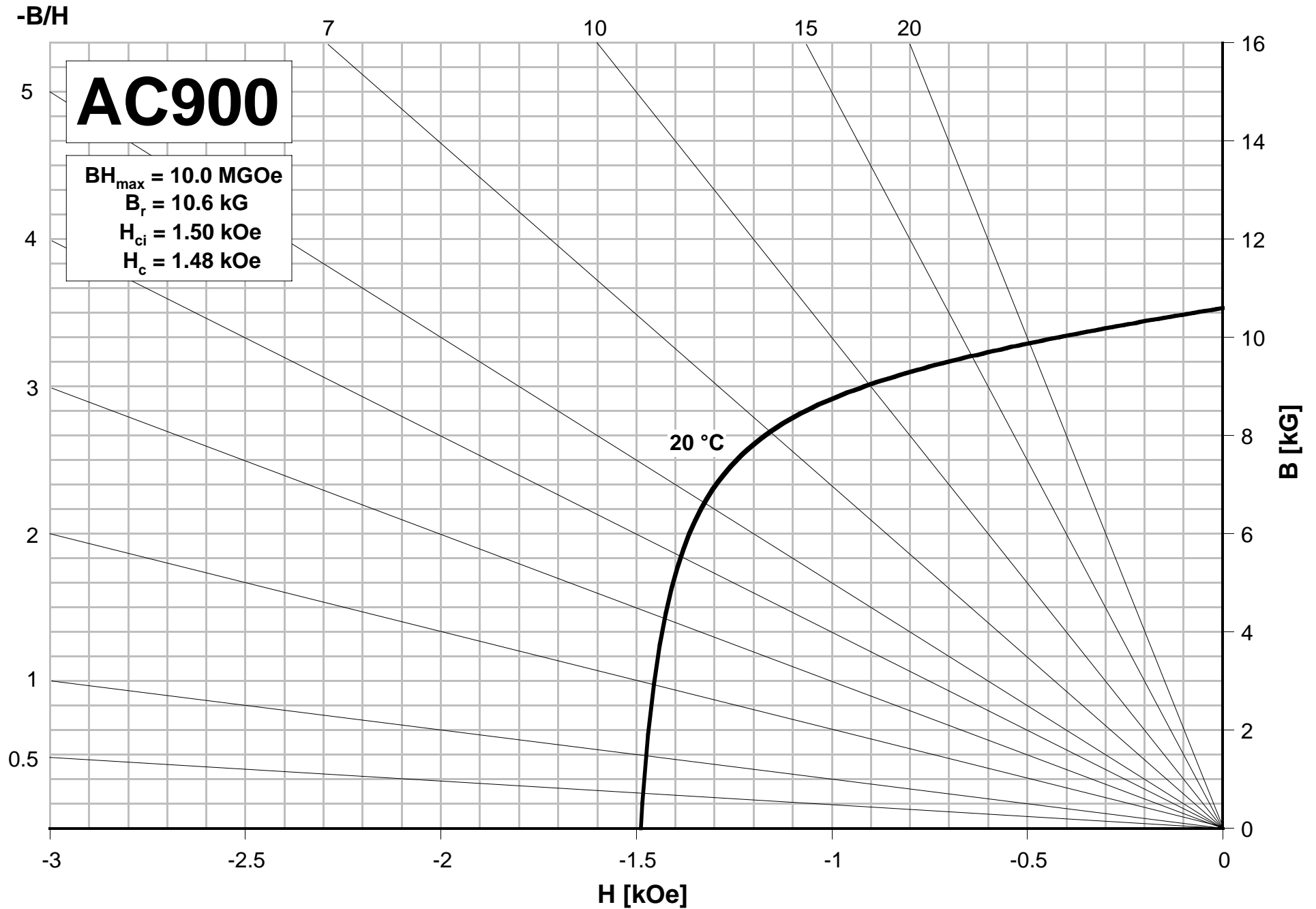
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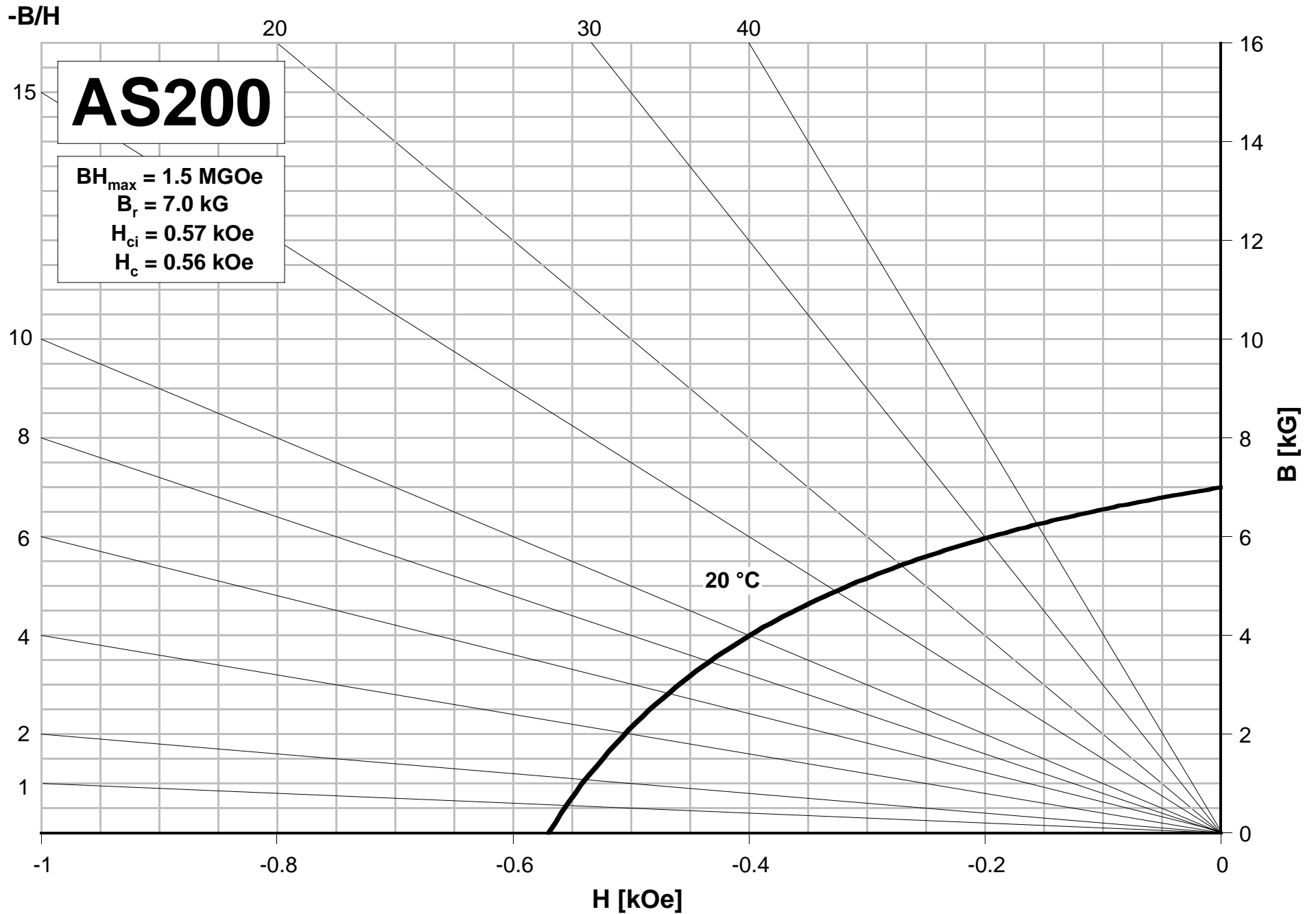
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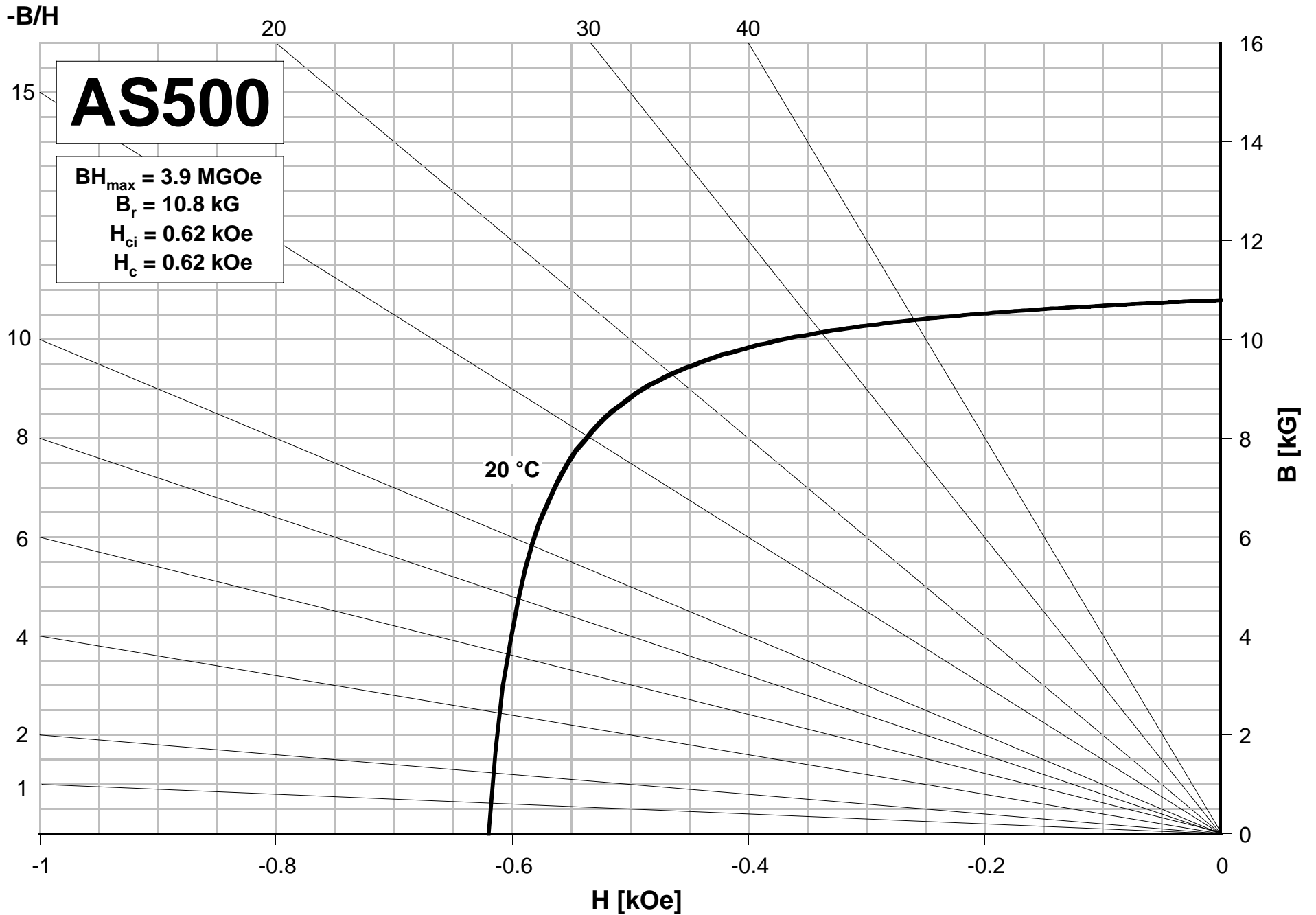
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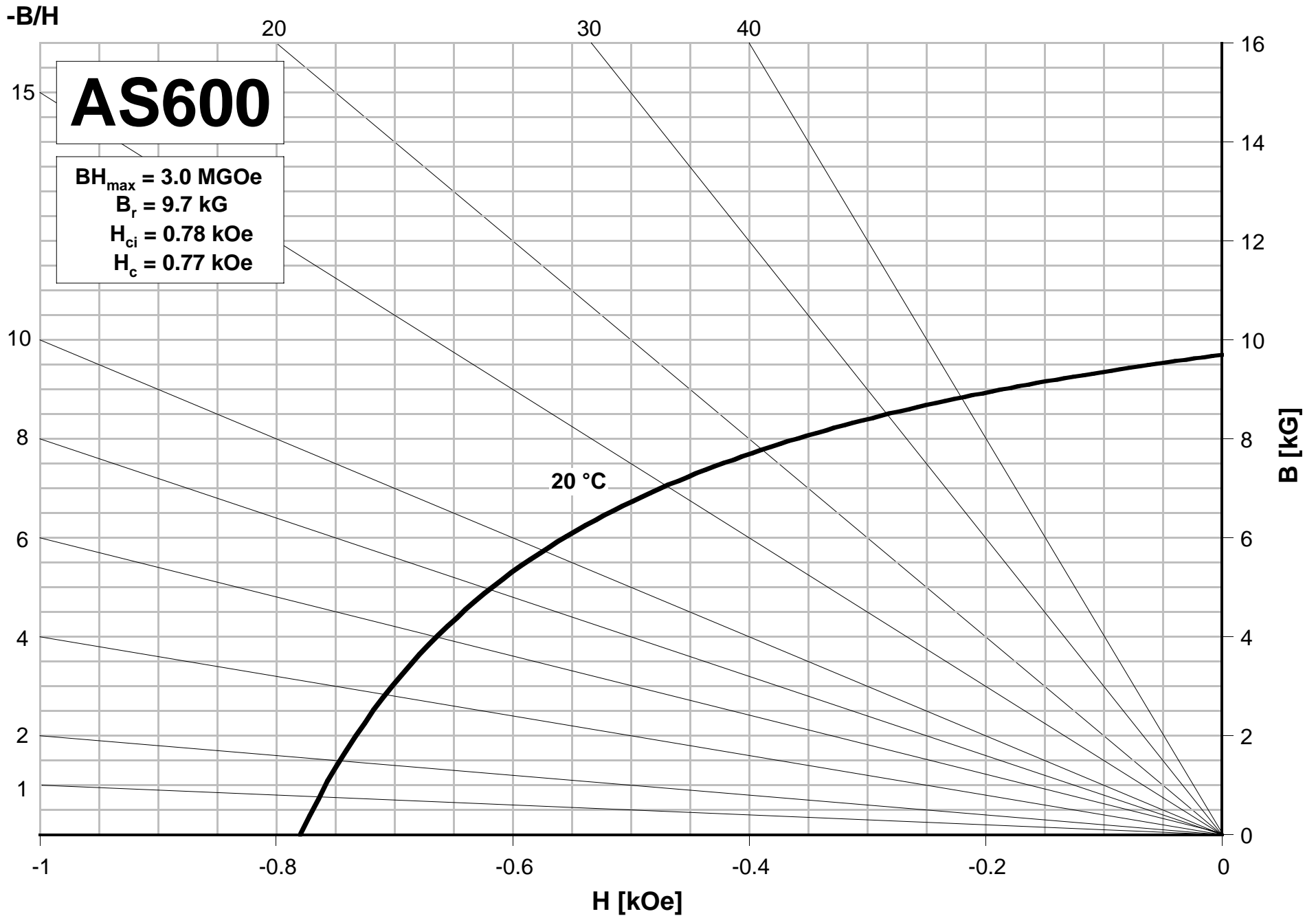
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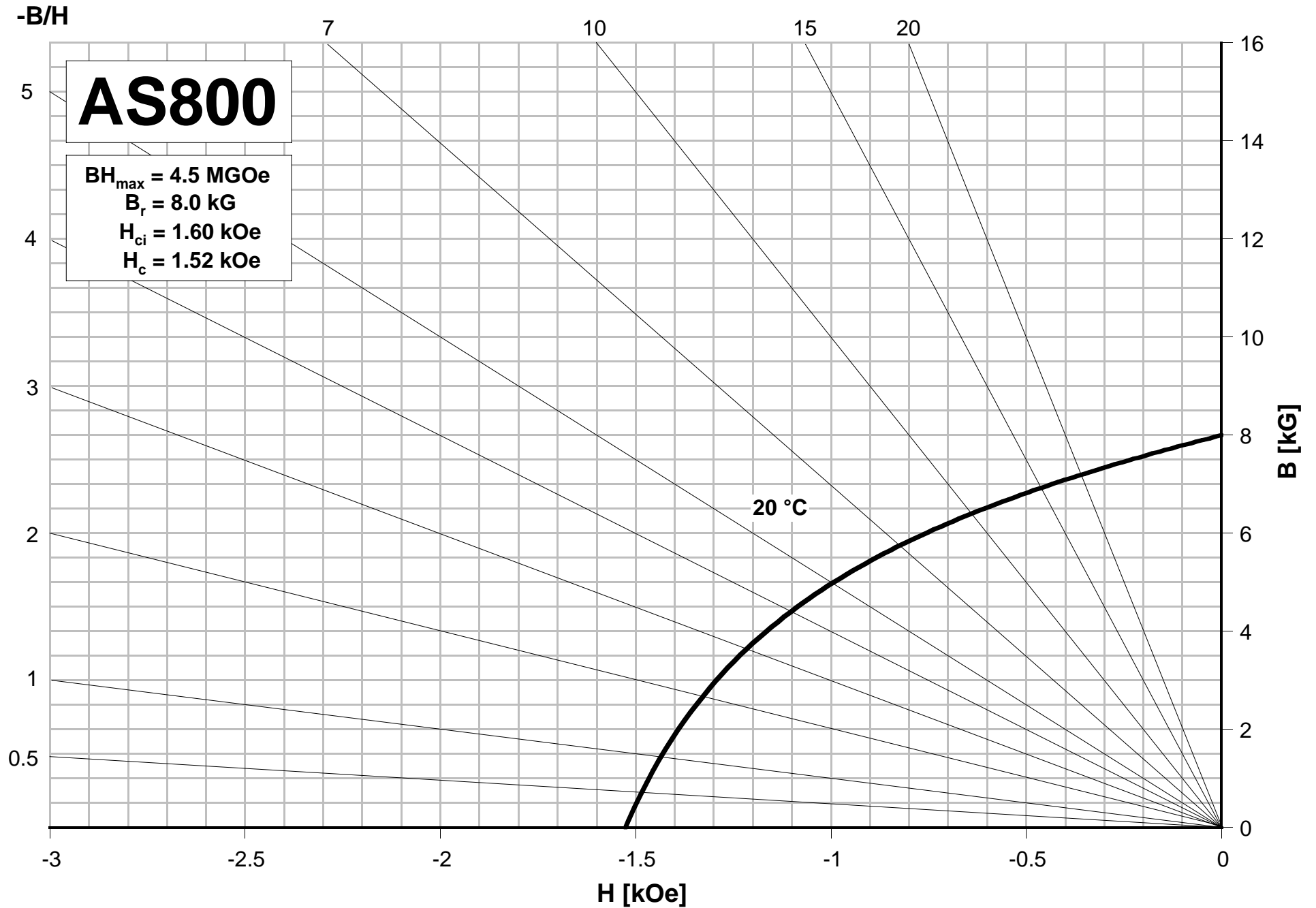
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