NINGBO EMPIRE
ADVANCED MATERIAL

Technical datasheet

G42YH Sintered NdFeB Permanent Magnet

Grade data and demagnetization curves

G42YH sintered NdFeB

Permanent magnet

Grain-boundary diffusion grade

Magnetic properties

Property	Unit (SI / CGS)	SI value	CGS value
Remanence (Br)	T / kG	1.280-1.330	12.80-13.30
Coercivity (Hcb)	kA/m / kOe	≥969	≥12.2
Intrinsic coercivity (Hcj)	kA/m / kOe	≥3184	≥40.0
Maximum energy product (BH)max	kJ/m³ / MGOe	310-342	39-43
Typical max. working temperature	°C	250	

Working temperature

The tabulated 250 °C value is typical at L/D = 0.7. Actual working temperature depends on magnet geometry, dimensions, magnetic circuit and operating conditions.

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Demagnetization curves

G42YH sintered NdFeB

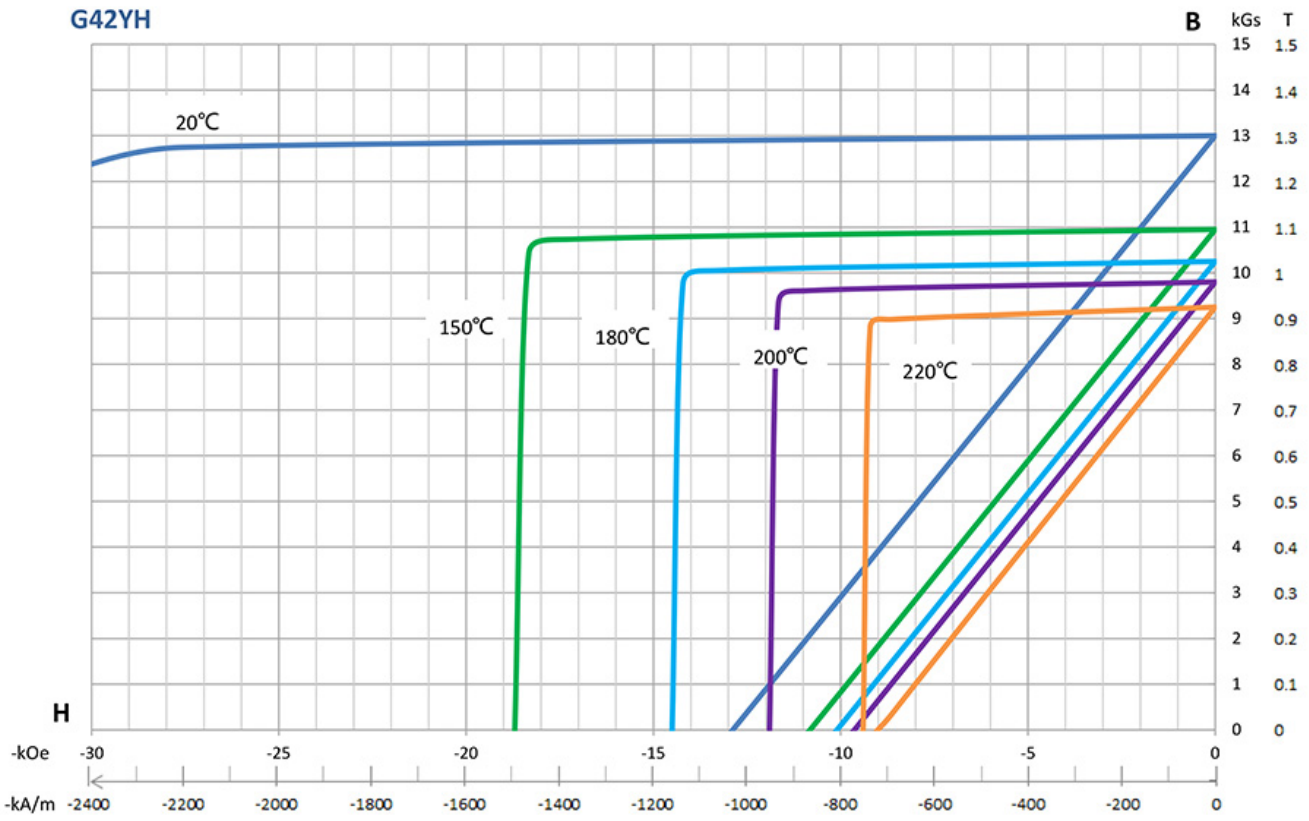

Figure 1. Published demagnetization curves.

Test and specification notes

Curve temperatures describe the plotted conditions. Use the typical maximum working temperature on page 2 when comparing grades, and evaluate the operating point for the finished part.

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