

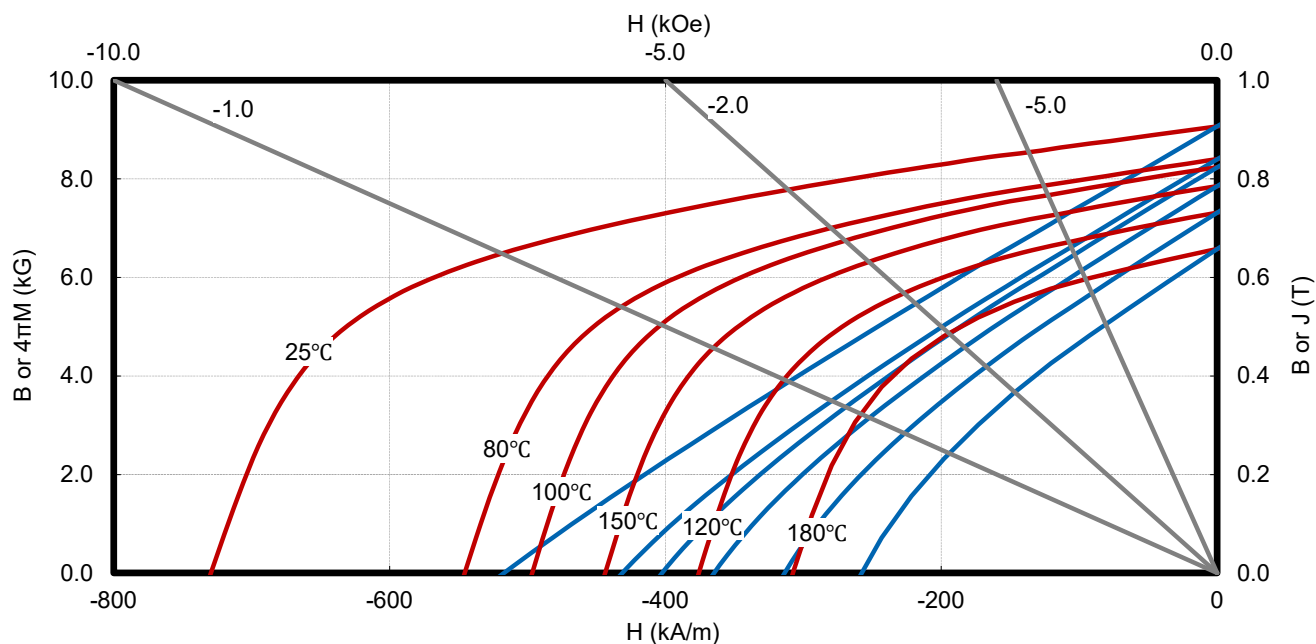
MQP-B-20299-070 Isotropic Powder*

Material Description

MQP-B-20299-070 is an isotropic magnet powder suitable for the manufacture of bonded magnets.

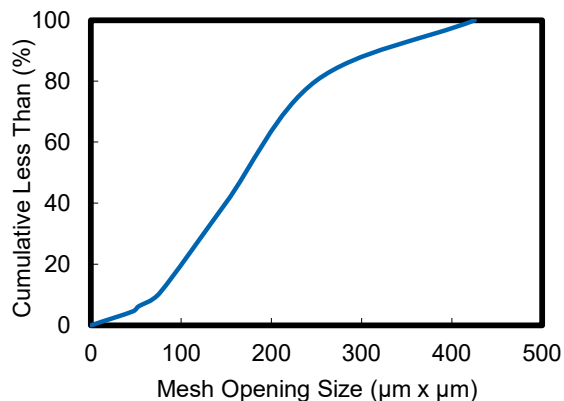
Powder Magnetic Characteristics¹

Specified	Residual Induction, Br.....	893-903	mT.....	8.93-9.03	kG
	Energy Product (BH)max.....	119-125	kJ/m ³	14.9-15.7	MGOe
	Intrinsic Coercivity, Hci.....	725-765	kA/m.....	9.1-9.6	kOe
Typical	Intrinsic Coercivity, Hc.....	512	kA/m.....	6.4	kOe
	Magnetizing Field to ≥95% Saturation Hs.....	≥1600	kA/m.....	≥20	kOe
	Temperature coefficient of Br, α, to 100°C.....	-0.14	%/°C		
	Temperature coefficient of Hci, β, to 100°C.....	-0.44	%/°C		
	Curie Temperature, T _c	298	°C		
	Maximum Operating Temperature ²	120-150	°C		
	Maximum Process Temperature ³	225-250	°C		



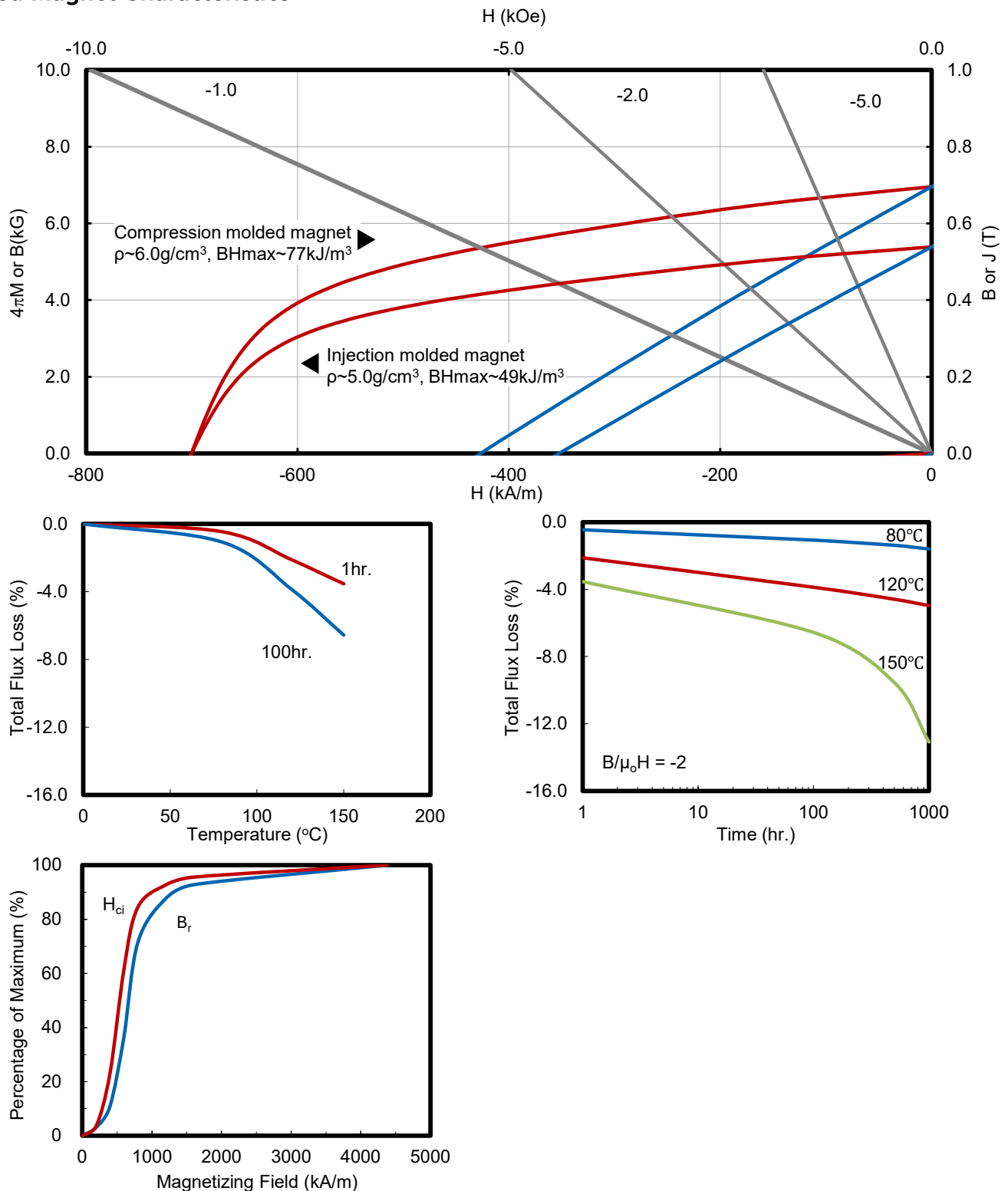
Physical Characteristics

Specified	Sieve Screen Analysis:		
	Total > 40 Mesh (420x420μm opening).....	< 2wt%	
	Total 60 Mesh (250μm x 250μm opening).....	< 20wt%	
	Total 270 Mesh (53μm x 53μm opening).....	< 20wt%	
Typical	Density (theoretical).....	7.59 g/cm ³	
	Apparent Density.....	2.81 g/cm ³	



*Contact Magnequench to obtain up-to-date product specifications

Bonded Magnet Characteristics⁴



1. Properties measured at 25°C, unless otherwise specified.
2. The Maximum Operating Temperature for a magnet made from this powder is dependent upon the specific application, the type of magnet, and magnet geometry. Contact our Application Engineers for more information.
3. Maximum Process Temperature is defined here at <2% reduction in coercivity (i.e. structural loss) after heating powder 1 hour in air.
4. These properties are typical at 25°C and are representative only. Magnet properties are dependent upon powder loading and magnet manufacturing conditions. Contact our Application Engineers for information about Magnequench magnet products.

*This powder, the products that are made there from, and its manufacturing processes are subject to one or more of the following United States Patents: 6,183,572; 6,478,890; 6,527,875; 6,855,265; 6,979,409; 7,087,185; 7,144,463.