

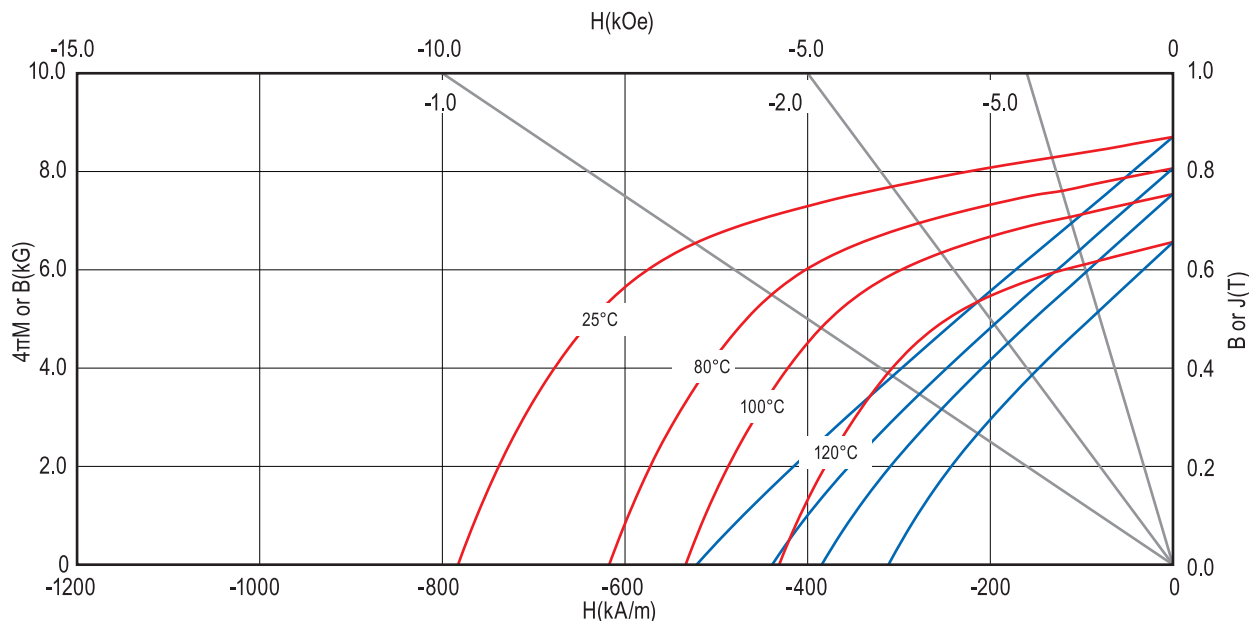
MQP™-14-9-20061-070 Isotropic Powder*

Material Description

MQP-14-9-20061 is an alternative material to MQP-13-9-20063. With a higher magnetic performance than MQP-13-9-20063, this material is designed for maximum cost-performance. MQP-14-9-20061 is also suitable for spindle motors and other costs sensitive ferrite applications like CPU cooling fans, box fans and other similar applications.. This material is produced by employing proprietary rapid solidification process followed by a milling process and heat treatment.

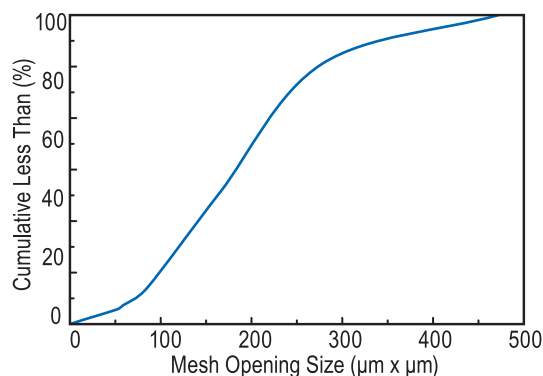
Powder Magnetic Characteristics¹

		SI	CGS
Specified	Residual Induction, B_r	835-865	mT8.35-8.65
	Energy Product, $(BH)_{max}$	106-118	kJ/m ³13.3-14.8
	Intrinsic Coercivity, H_{ci}	690-770	kA/m8.7-9.7
Typical	Magnetizing Field to ≥ 95% Saturation H_s	≥ 505	kA/m..... ≥ 6.3
	Temperature coefficient of B_r , α , to 100° C	-0.14	%/°C
	Temperature coefficient of H_{ci} , β , to 100° C	-0.36	%/°C
	Coercive Force, H_c	≥ 1600	kA/m..... ≥ 20
	Curie Temperature, T_c	302	°C
	Maximum Operating Temperature ²	130-160	°C
	Maximum Process Temperature ³	225	°C



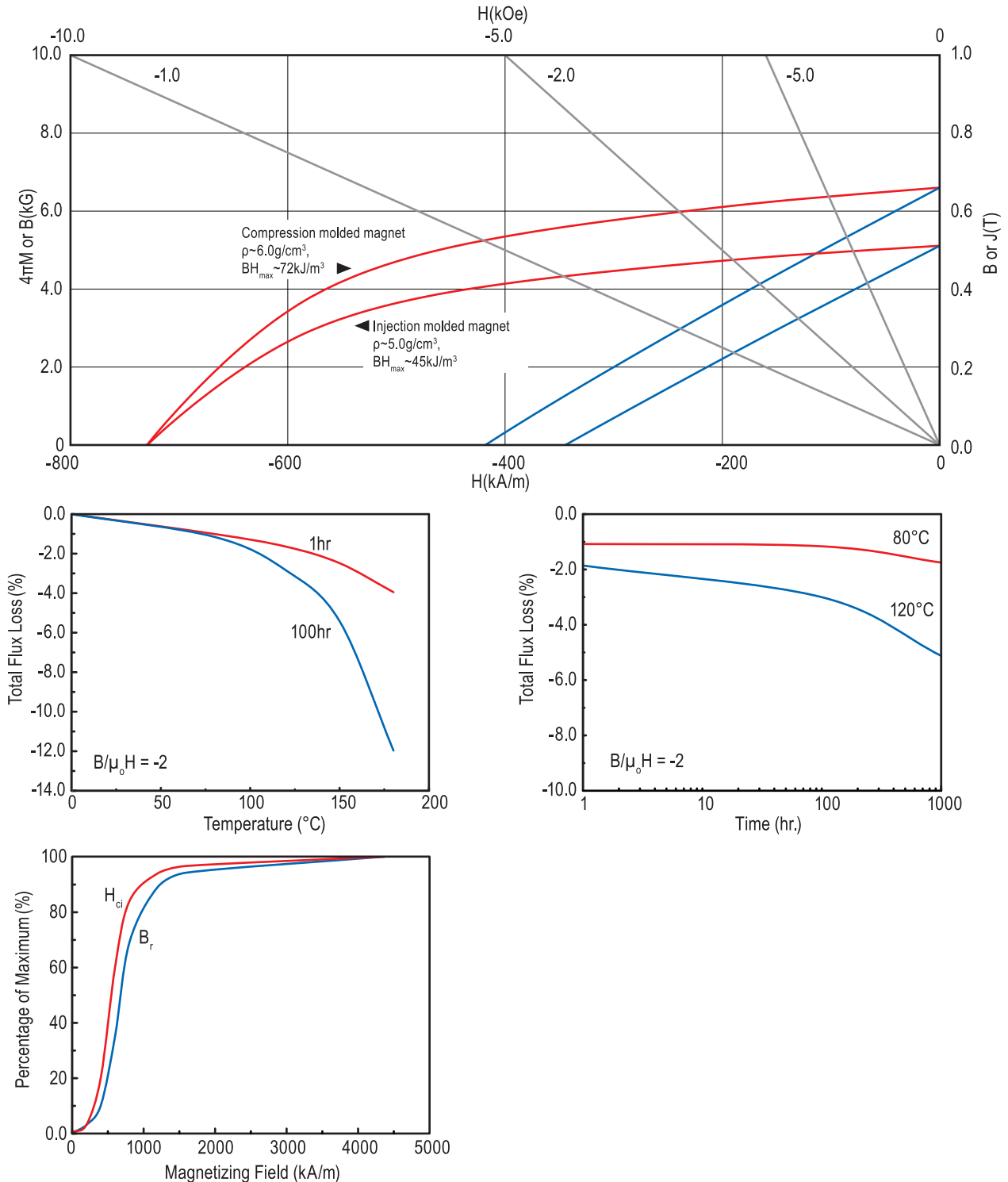
Physical Characteristics

Specified	Sieve Screen Analysis:	
	Total > 40 Mesh (177x177 μ m opening)	< 0.1wt%
	Total > 60 Mesh (149x149 μ m opening)	< 25wt%
	Total < 270 Mesh (53x53 μ m opening)	< 12wt%
Typical	Density (theoretical)	7.54 g/cm ³
	Apparent Density	2.79 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.