

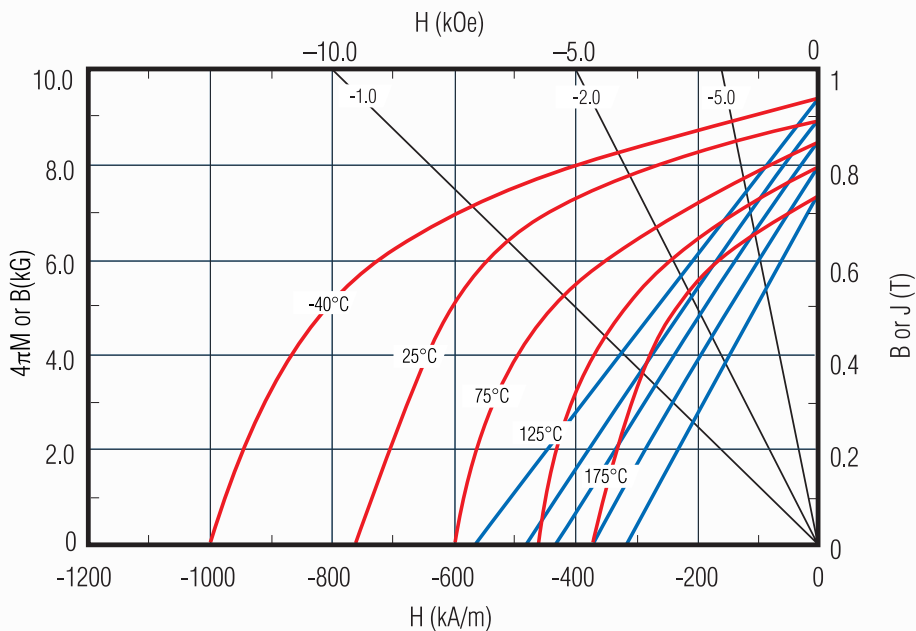
MQP™ - B-20029-070 ISOTROPIC POWDER*
Former Name: MQP-B2

Material Description

MQP-B-20029-070 is an isotropic magnet powder suitable for the manufacture of bonded magnets. It is also based on an Nd-Fe-Co-B alloy composition; however it contains lower cobalt amounts. The alloy is rapidly solidified into a thin metal ribbon and milled into powder. The powder is then heat treated and blended to meet final magnetic specifications.

Powder Magnetic Characteristics¹

		<u>SI</u>	<u>CGS</u>
Specified	Residual Induction, B_r	883-893 mT	8.83-8.93 kG
	Energy Product, $(BH)_{max}$	118-126 kJ/m ³	14.8-15.8 MGOe
	Intrinsic Coercivity, H_{ci}	730-790 kA/m	9.2-9.9 kOe
Typical	Coercive Force, H_c	520 kA/m	6.6 kOe
	Magnetizing Field to >95% Saturation (Min.), H_s	≥1600 kA/m	≥20 kOe
	Temperature coefficient of B_r , α , to 100°C	-0.11 %/°C	
	Temperature coefficient of H_{ci} , β , to 100°C	-0.4 %/°C	
	Curie Temperature, T_c	330 °C	
	Maximum Operating Temperature ²	120-160 °C	
Maximum Process Temperature ³	200 °C		



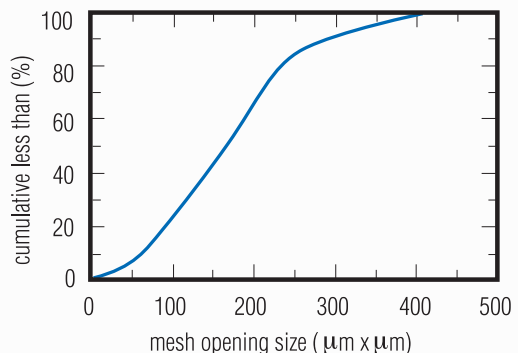
Physical Characteristics

Specified

Sieve Screen Analysis:
 Total > 40 Mesh (420x420 μm opening) < 0.1 wt. %
 Total > 60 Mesh (250x250 μm opening) < 25 wt. %
 Total < 270 Mesh (53x53 μm opening) < 12 wt. %

Typical

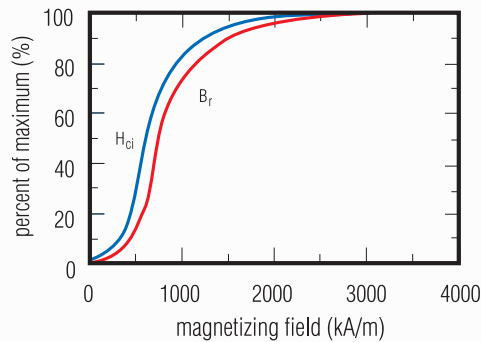
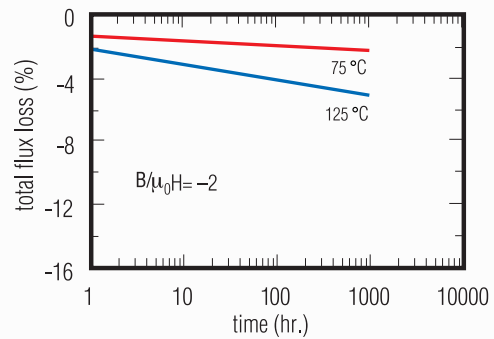
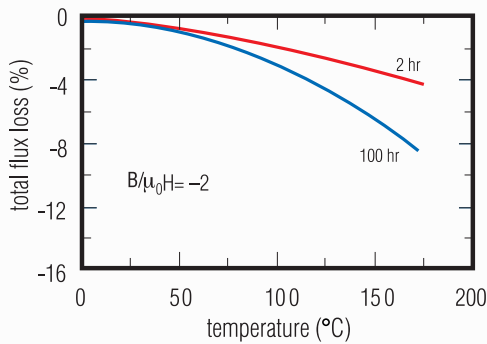
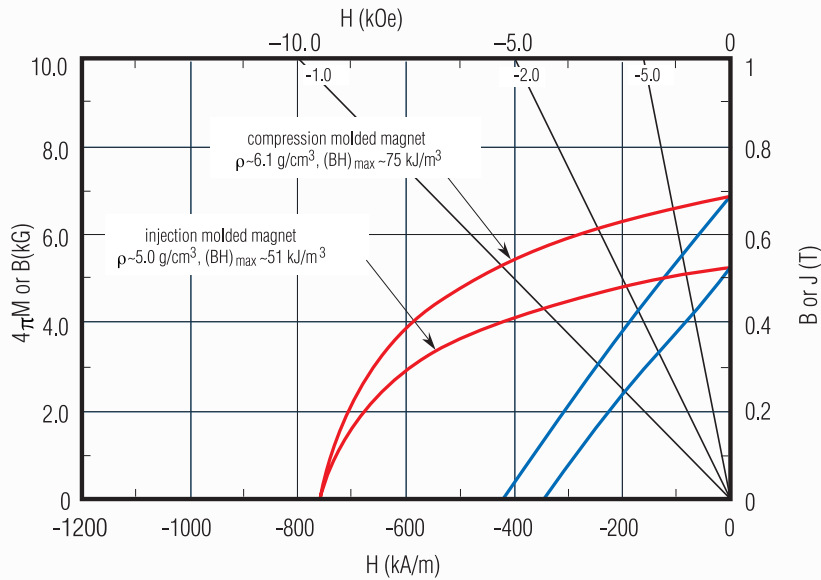
Density (theoretical) 7.63 g/cm³
 Apparent Density 2.57 g/cm³



* Contact Magnequench to obtain up-to-date product specifications and for assistance in selecting the ideal product for your application.

MQP™-B-20029-070 ISOTROPIC POWDER

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 your local sales representative for more information.
³ Maximum Process Temperature is defined here as <2% reduction in flux (i.e. structural loss) after heating powder 1 hour in air.
⁴ These properties are typical at 25°C and are representative only. Bonded magnet properties are dependent upon powder loading and magnet manufacturing conditions. Contact your local sales representative for information about our products.