

MQPTM-B+-10118 Isotropic Powder*

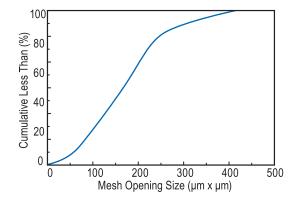
Material Description

MQP-B+-10118-070 is one of Magnequench's earliest developed magnetic powder.MQP-B+-10118-070 can be employed in many applications that require high performance. MQP-B+-10118-070 is an isotropic magnet powder based on a patented Nd-Fe-Co-B alloy that is suitable for manufacture of bonded magnets. This material is produced by employing a proprietary rapid solidification process followed by a milling process and heat treatment.

Powder Mag	netic Characte	ristics1	SI		<u>CGS</u>			
Specified	$\begin{array}{llllllllllllllllllllllllllllllllllll$			mT kJ/m³ kA/m	15.8-16.8	kG MGOe kOe		
Typical	Instrinsic Coercivit Magnetizing Field Temperature coeff Temperature coeff Curie Temperature Maximum Operatir Maximum Process	%/°C °C °C	6.8 ≥ 20.0	kOe kOe				
		_	H 10.0	(kOe)	- 5.0		0	1
-10.	0						\	1.0
-8.	0		-1.0		-2.0		-5.0	0.8
(<u>k</u> G))							0.6
4тМ or B(kG)								0.0 (L) B or J(T)
		-40°C	25°C	75°C	125°C 175	5°C		
-2.								0.2
		000 -	-800	-600	-400	-2	00 (0.0

H(kA/m)

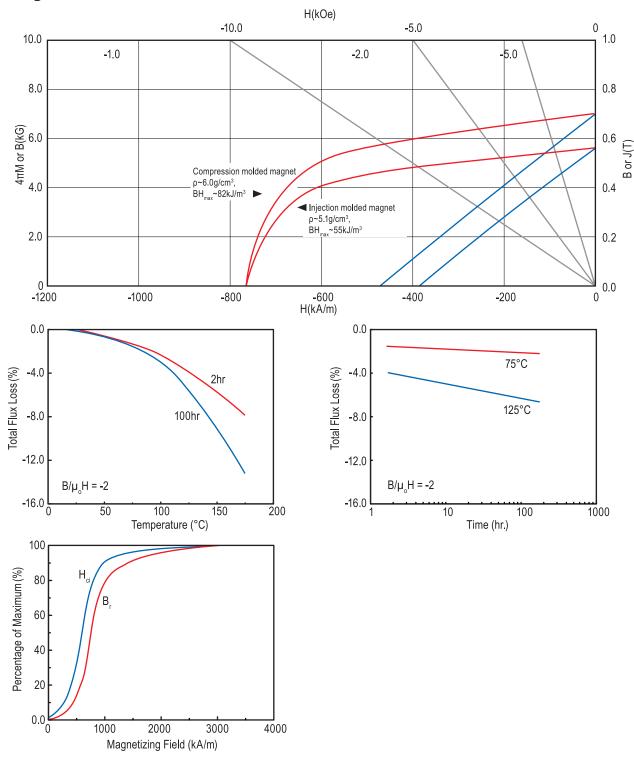
Physcial Characteristics



^{*}Contact Magnequench to obtain up-to-date product specifications.



Bonded Magnet Characteristics⁴



¹ Properties measured at 23°C, unless otherwise specified.

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 23°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.