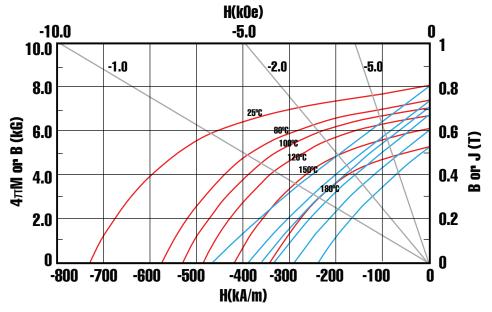


MQP[™]-13-9-20081-070 ISOTROPIC POWDER*

Material Description

MQP-13-9-20081-070, powder designed for lower flux applications, is an isotropic magnet powder suitable for the manufacturing of bonded magnets. It is based on a patented RE-Fe-B alloy composition that has been cost optimized. This material is produced by employing a proprietary rapid solidification process followed by a milling process and heat treatment.

Powder Magnetic Characteristics ¹		<u>SI</u>	<u>CGS</u>
Specified	Residual Induction, B _r Energy Product, (BH) _{max} Intrinsic Coercivity, H _{ci}	98-110	kJ/m ³ 12.2–13.8 MG0e
Typical	Coercive Force, H_c	≥1600 0.16 0.37 274 120-150	kA/m≥20 kOe %/°C %/°C °C °C



Physical Characteristics

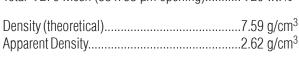
Specified

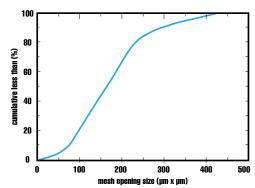
Sieve Screen Analysis:

Total > 80 Mesh (177 x 177 μ m opening)...... < 2 wt.%

Total > 100 Mesh (149 x 149 μ m opening)......< 20 wt.% Total < 270 Mesh (53 x 53 μm opening).....< 20 wt.%

Density (theoretical)......7.59 g/cm³ **Typical**

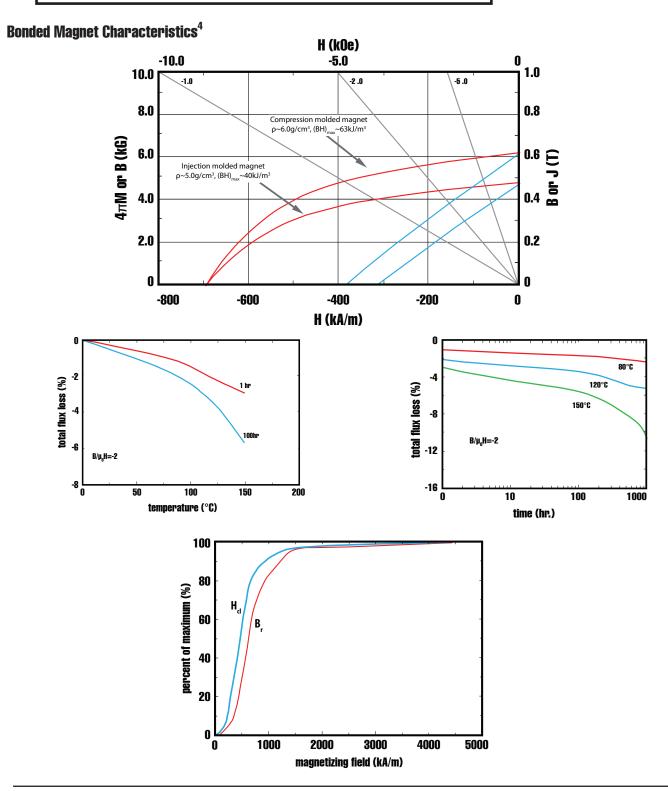




^{*}Contact Magnequench to obtain up-to-date product specifications and for assistance in selecting the ideal product for your application.



MQP[™]-13-9-20081-070 ISOTROPIC POWDER*



- 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.

These powders, the products that are made therefrom, and their manufacturing processes are subject to one of more of the following United States Patents: 5,056,585; 5,172,751; 5,174,362; 5,411,608; 5,645,651; 6,183,572; 6,478,890; 6,979,409; 7,144,463