

ISOTROPIC POWDERS (MQP)

Characteristic		Residual Induction, B_r	Energy Product, (BH) _{max}	Intrinsic Coercivity, H_{ci}	Coercive Force, H_c	Magnetizing Field to >95% H_s (Min.)	Temperature Coefficient of B_r	Temperature Coefficient of H_{ci}	Curie Temperature, T_c	Maximum Operating Temperature	Maximum Process Temperature	Density (theoretical)	Apparent Density	Particle Size Distribution	Composition		
Name	Part No.	mT (KG)	kJ/m3 (MG0e)	kA/m (kOe)	kA/m (kOe)	kA/m (kOe)	%/°C	%/°C	°C	°C	°C	g/cm ³	g/cm ³				
MQP-A	10179-070	780-820 (7.80-8.20)	97-111 (12.2-14.0)	1030-1350 (13.0-17.0)	515 (6.40)	≥2000 (≥25)	-0.12	-0.4	305	120-160	200	7.60	2.70	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. %	Nd-Fe-B
MQP-B	20173-070	883-903 (8.83-9.03)	116-124 (14.6-15.6)	690-750 (8.7-9.4)	505 (6.30)	≥1600 (≥20)	-0.14	-0.4	298	120-150	250	7.59	2.81	Total >80 Mesh (177 x 177 μm opening) <2 wt. %	Total >100 Mesh (149x 149 μm opening) <20 wt. %	Total >270 Mesh (53x53 μm opening) <20 wt. %	Nd-Pr-Fe-B
	20076-070	878-898 (8.78-8.98)	117-125 (14.7-15.7)	720-780 (9.1-9.8)	515 (6.50)	≥1600 (≥20)	-0.13	-0.4	313	120-150	250	7.61	2.62	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. %	Nd-Fe-B
	20052-070	865-885 (8.65-8.85)	116-124 (14.6-15.6)	800-860 (10.0-10.8)	520 (6.50)	≥1600 (≥20)	-0.13	-0.4	315	120-160	250	7.60	2.63	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. %	Nd-Fe-B
	20029-070	883-893 (8.83-8.93)	118-126 (14.8-15.8)	730-790 (9.2-9.9)	520 (6.50)	≥1600 (≥20)	-0.11	-0.4	330	120-160	200	7.63	2.57	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. %	Nd-Co-Fe-B
	10184-070	860-895 (8.60-8.95)	111-126 (14.0-15.8)	640-800 (8.0-10.0)	500 (6.30)	≥1600 (≥20)	-0.11	-0.4	360	120-160	200	7.64	2.70	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. %	Nd-Co-Fe-B
MQP-B+	20056-70	893-901 (8.93-9.01)	122-128 (15.3-16.1)	750-810 (9.4-10.2)	530 (6.70)	≥1600 (≥20)	-0.11	-0.35	330	130-150	250	7.63	2.64	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. %	Nd-Co-Fe-B
	10118-70	895-915 (8.95-9.15)	126-134 (15.8-16.8)	716-836 (9.0-10.5)	540 (6.80)	≥1600 (≥20)	-0.11	-0.4	360	120-160	200	7.64	2.70	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. %	Nd-Co-Fe-B
MQP-C	20006-070	780-820 (7.80-8.20)	99-111 (12.5-14.0)	1230-1474 (15.5-18.5)	520 (6.50)	≥2000 (≥25)	-0.07	-0.4	470	120-160	200	7.72	2.70	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. %	Nd-Co-Fe-B

Contact Magnequench for up-to-date specifications

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Magnequench International, Inc. 61 Science Park Rd, #01-19, The Galen, Singapore Science Park II, Singapore 117525

research@magnequench.com www.mqjtechnology.com www.magnequench.com

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ISOTROPIC POWDERS (MQP)

Characteristic		Residual Induction, B_r	Energy Product, $(BH)_{max}$	Intrinsic Coercivity, H_{ci}	Coercive Force, H_c	Magnetizing Field to >95% H_s (Min.)	Temperature Coefficient of B_r	Temperature Coefficient of H_{ci}	Curie Temperature, T_c	Maximum Operating Temperature	Maximum Process Temperature	Density (theoretical)	Apparent Density	Particle Size Distribution	Composition		
Name	Part No.	mT (KG)	kJ/m ³ (MG0e)	kA/m (kOe)	kA/m (kOe)	kA/m (kOe)	%/°C	%/°C	°C	°C	°C	g/cm ³	g/cm ³				
MQP-0	20057-070	800-830 (8.00-8.30)	105-115 (13.2-14.5)	940-1070 (11.8-13.5)	525 (6.60)	≥1600 (≥20)	-0.13	-0.4	305	140-180	300	7.61	2.70	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. %	Nd-Fe-B
MQP-12-5	20092-070	840-870 (8.40-8.70)	91-101 (11.4-12.7)	420-480 (5.3-6.0)	365 (4.60)	≥1270 (≥16)	-0.16	-0.42	272	80-100	275	7.64	2.74	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. %	Nd-Ce-Fe-B
MQP-12.5-8.5	20105-070	795-825 (7.95-8.25)	93-105 (11.7-13.2)	650-730 (8.2-9.2)	451 (5.70)	≥1600 (≥20)	-0.17	-0.36	266	120-150	225	7.64	2.54	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. %	Nd-Pr-Ce-Fe-B
MQP-13-9	20081-070	795-825 (7.95-8.25)	98-110 (12.2-13.8)	700-780 (8.8-9.8)	475 (6.00)	≥1600 (≥20)	-0.16	-0.37	274	120-150	250	7.59	2.62	Total >80 Mesh (177x177 μm opening) <2 wt. %	Total >100 Mesh (149x149 μm opening) <20 wt. %	Total <270 Mesh (53x53 μm opening) <20 wt. %	Nd-Pr-Ce-Fe-B
	20063-070	795-825 (7.95-8.25)	100-112 (12.6-14.1)	720-800 (8.7-9.7)	505 (6.30)	≥1600 (≥20)	-0.14	-0.36	295	130-160	250	7.48	2.60	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. %	Nd-Pr-La-Fe-B
	20011-070	790-820 (7.90-8.20)	99-107 (12.4-13.4)	640-800 (8.0-10.0)	485 (6.10)	≥1600 (≥20)	-0.12	-0.4	293	125-170	250	7.47	2.70	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. %	Nd-Pr-Fe-B
	10533-070	790-820 (7.90-8.20)	97-105 (12.2-13.2)	640-800 (8.0-10.0)	470 (5.90)	≥1600 (≥20)	-0.12	-0.4	305	120-160	250	7.56	2.70	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. %	Nd-Pr-Fe-B
MQP-14-12	20000-070	820-850 (8.20-8.50)	107-120 (13.4-15.1)	940-1050 (11.8-13.2)	550 (6.90)	≥1600 (≥20)	-0.13	-0.4	305	140-180	250	7.62	2.70	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. %	Nd-Fe-B

ISOTROPIC POWDERS (MQP)

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Name	Part No.	mT (KG)	kJ/m ³ (MGOe)	kA/m (kOe)	kA/m (kOe)	kA/m (kOe)	%/°C	%/°C	°C	°C	°C	g/cm ³	g/cm ³				
MQP-15-7	20065-070	915-935 (9.15-9.35)	114-126 (14.3-15.8)	540-620 (6.8-7.8)	450 (5.70)	≥1600 (≥20)	-0.13	-0.43	309	80-120	200	7.61	2.71	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. %	Nd-Pr-Fe-B
	10271-070	900-930 (9.00-9.30)	115-123 (14.5-15.5)	510-640 (6.5-8.0)	440 (5.50)	≥1600 (≥20)	-0.11	-0.4	325	80-120	200	7.63	2.70	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. %	Nd-Co-Fe-B
MQP-16-7	20068-070	940-980 (9.40-9.80)	114-130 (14.3-16.3)	525-605 (6.6-7.6)	435 (5.50)	≥1600 (≥20)	-0.12	-0.52	291	80-120	250	7.61	2.81	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. %	Pr-Fe-B
	11277-070	960-1000 (9.60-10.00)	124-140 (15.6-17.6)	520-600 (6.5-7.5)	460 (5.80)	≥1600 (≥20)	-0.08	-0.5	345	80-120	200	7.61	2.70	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. %	Pr-Co-Fe-B
MQP-15-9HD	20178-070	858-878 (8.58-8.78)	115-123 (14.5-15.5)	720-780 (9.0-9.8)	525 (6.6)	≥1600 (≥20)	-0.14	-0.42	289	130-140	250-275	7.60	2.75	Total >80 Mesh (177mm x 177 μm opening) <2 wt. %	Total >100 Mesh (149mm x 149 μm opening) <20 wt. %	Total <270 Mesh (53x53 μm opening) <20 wt. %	Nd-Pr-Fe-B

ATOMIZED ANNEALED SPHERICAL POWDER

Characteristic		Residual Induction, B_r	Energy Product, (BH) _{max}	Intrinsic Coercivity, H_{ci}	Coercive Force, H_c	Magnetizing Field to > 95% H_s (Min.)	Temperature Coefficient of B_r	Temperature Coefficient of H_{ci}	Curie Temperature, T_c	Maximum Operating Temperature	Maximum Process Temperature	Density (theoretical)	Apparent Density	Particle Size Distribution			Composition
Name	Part No.	mT (KG)	kJ/m ³ (MGOe)	kA/m (kOe)	kA/m (kOe)	kA/m (kOe)	%/°C	%/°C	°C	°C	°C	g/cm ³	g/cm ³				
MQP-S	20001-070	730-760 (7.30-7.60)	80-92 (10.0-11.5)	670-750 (8.4-9.4)	440 (5.50)	≥1600 (≥20)	-0.13	-0.4	320	140-180	350	7.43	3.6-4.2	Total >105 μm ≤ 3.0 wt. %	Median Size, $d_{50\%}$ 35-55 wt. %	Width (1σ) 10-30 wt. %	Nd-Pr-Co- Fe-B