

# Ndfeb powder

At present, the product range of our magnets covers five kinds of magnetic powder and all kind of bonded magnet. They can be used in the automobile industry, office automation, electric toys and magnetic curing products, etc. because they have high quality and high strength and they can be made to complicated shape.



**Magnetic Properties of Melt-spun NdFeB Magnetic Powder**

Grade	Br		Hcb		Hcj		(BH)max		Temp. Coeff. Of Br. To 100	Temp. Coeff. Of Hcj. To 100
	T	KGs	KA/m	KOe	KA/m	KOe	KJ/m <sup>3</sup>	MGOe	%/°C	%/°C
NQP-A	0.74-0.80	7.40-8.00	440-496	5.50-6.20	1035-1360	13.0-17.0	80-96	10.0-12.0	-0.13	-0.40
NQP-B	0.74-0.83	7.40-8.30	320-520	4.00-6.50	560-800	7.0-10.0	64-108	8.0-13.5	-0.105	-0.40
NQP-C	0.74-0.81	7.40-8.10	440-504	5.50-6.30	1035-1360	13.0-17.0	80-96	10.0-12.0	-0.07	-0.40
NQP-D	0.74-0.83	7.40-8.30	440-520	5.50-6.50	640-800	8.0-10.0	92-108	11.5-13.5	-0.07	-0.40
NQP-L	0.85-1.10	8.50-11.0	192-280	2.40-3.50	240-400	3.0-5.0	56-76	7.0-9.5	-0.048	-0.35

Note: (1) The standard particle size of melt-spun NdFeB permanent magnetic powder:

> 300  $\mu\text{m}$  (60 mesh) < 1%

> 150  $\mu\text{m}$  (100 mesh) 20-40%

> 75  $\mu\text{m}$  (200 mesh) 50-70%

> 75  $\mu\text{m}$  (200 mesh) < 10%

(2) We can manufacture it according to other sizes and magnetic properties required by clients.

Physical Properties:

Grade	Curie Temp.	Working Temp.(Max.)	Density	Particle Size	Click the following link to check the demagnetization curve
	°C	°C	g/cm <sup>3</sup>	$\mu\text{m}$	
NQP-A	310	120	7.6	50-200	<a href="#">▶ NQP-A demagnetization curve</a>
NQP-B	390	120	7.64	50-200	<a href="#">▶ NQP-B demagnetization curve</a>
NQP-C	470	150	7.64	50-200	<a href="#">▶ NQP-C demagnetization curve</a>
NQP-D	470	150	7.64	50-200	<a href="#">▶ NQP-D demagnetization curve</a>
NQP-L	400	100	7.4	50-200	<a href="#">▶ NQP-L demagnetization curve</a>

We developed new generation of isotropic and anisotropic NdFeB powder based on

national equipment assembly, which are of excellent characteristics, and reach up to advanced level with international similar products. the granularity of isotropic powder would exceed 200 Mesh, which would suit for injection moulding magnets without adjusting its granularity further. Because the technical parameter of anisotropic magnets have been accurately controlled by us, we could adjust its intrinsic coercive force between the range of 9KOe and 14KOe in the condition of same max.energy product according to the clients' requirement, this Ndfeb powder especially suitable for manufacturing thin-wall magnetic rings with multipoles magnetized. The granularity of anisotropic powder could be adjusted according to clients' requirement to meet the requirement of mould compressing and injection, as well as all kinds of other producing way. According to our previous experience, even sintered magnets manufacturers could use the existing magnetic field oriented compress machine which have slightly modified, to produce the anisotropic bonded magnet. Sheet 1.Characteristics for isotropic NdFeB magnetic powder

Mark	HcJ(kOe)	Br(kGs)	(BH)max.(MGOe)	Tc(jãC)	Density(g/cm3)	Granularity
IQP9-14	9-10	8.6-9.1	14-16	360	7.65	<200
IQP11-12	11-13	7.8-8.2	12-14	310	7.62	<200

#### Sheet 2. Characteristics for anisotropic NdFeB magnetic powder

Mark	HcJ(kOe)	Br(kGs)	(BH)max.(MGOe)
AQP9-40	8.5-10	13.0-13.5	40-42
AQP9-40	10.5-12	13.0-13.5	40-42
AQP9-40	12.5-14	13.0-13.5	40-42

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