

Mector® HP Series

HP Series high magnetic permeability Absorbent powder

Mector® HP Series High-Permeability Wave-Absorbing Powder is a two-dimensional soft magnetic powder (mainly Fe-, Ni-, Co-based alloys) specially treated to achieve optimally designed real part μ' and imaginary part μ'' of permeability. Breaking through the Snoek's limit, the powder features high saturation magnetic flux density, high permeability and low loss. Made from this powder, wave-absorbing materials deliver equivalent performance with slimmer and lighter structures, contributing to device miniaturization.

Product Features & Advantages

- Ultra-high diameter-to-thickness ratio;
- Nano-scale thickness with metallic luster;
- High saturation magnetization, uniform thickness, concentrated particle size and good dispersibility;
- Halogen-free and eco-friendly, complying with EU RoHS Directive, REACH and other regulatory requirements.

Typical Applications

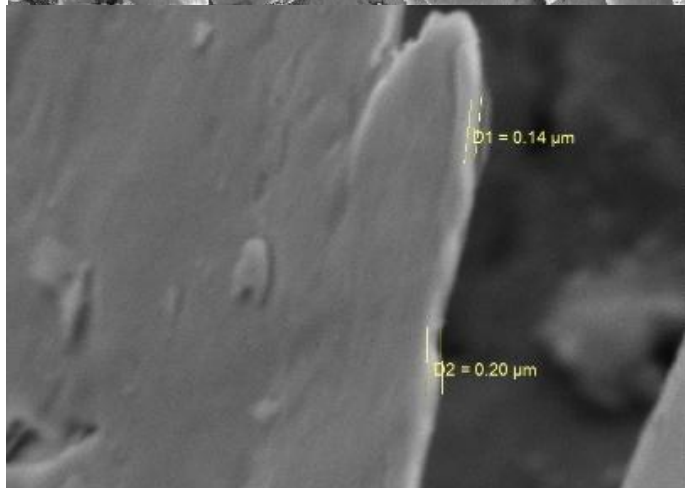
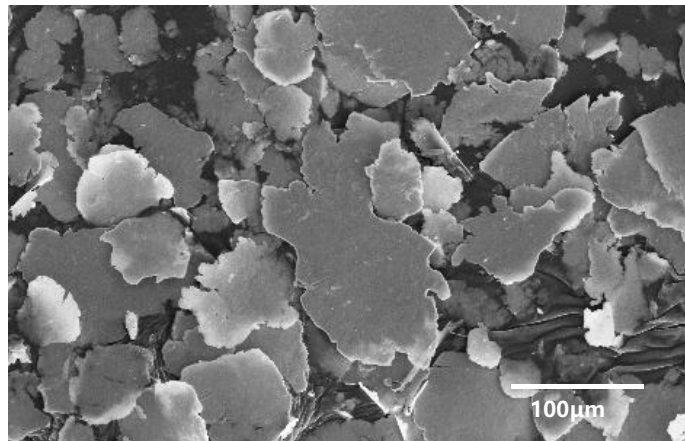
- High-performance thin-film wave-absorbing materials, wave-absorbing coatings and pellets;
- End-use applications: digital drawing displays, NFC/RFID, WPC modules.

Supply Form

- 20 kg per drum;
- Please provide model and packaging requirements upon inquiry.

Usage Method

- Permeability is measured by preparing 50 μm -thick magnetic sheets with 50 vol.% powder loading;
- Direct application is available based on customer-specific conditions.

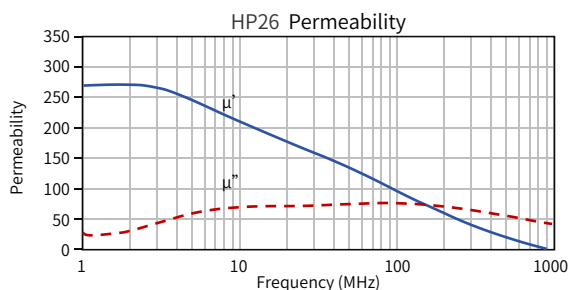
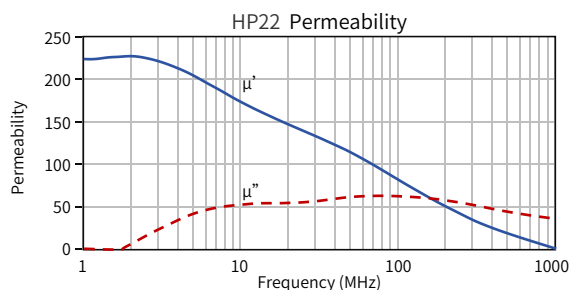


Mector® HP Series

HP Series high magnetic permeability Absorbent powder

Item	HP22	HP26	Test Standard
A.D (g/cm ³)	0.4 - 0.5	0.35 - 0.45	GB/T 1479.2-2011
T.D (g/cm ³)	0.8 - 1.3	0.8 - 1.3	GB/T 5162-2006
D10 (μm)	25 - 45	30 - 50	GB/T 19077.1-2008
D50 (μm)	70 - 85	70 - 90	GB/T 19077.1-2008
D90 (μm)	140 - 160	145 - 165	GB/T 19077.1-2008
Permeability μ' @3MHz	200 - 240	240 - 280	GB/T 32596-2016
Operating frequency (Hz)	Sub-2.4G	Sub-1.5G	GB/T 32596-2016
Shipping specifications (customizable)	20kg/barrel		
Storage conditions	5 - 40°C/ (60±10) %RH		
shelf life	36 months		

Note: The data provided is solely for the reference of design engineers. The performance mentioned above represents the performance range of the series of products. Variations may occur in different models of products and in different application environments. Engineers should conduct tests based on the actual environment.



Coding Rules

HP 22 - X

① ② ③

- ① Product category: HP = High Permeability
- ② Permeability: 22=220 permeability
- ③ Special code: such as different formula systems or special requirements