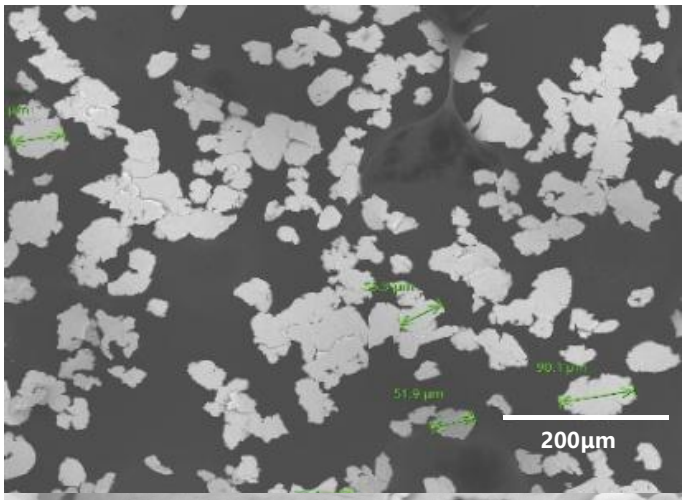
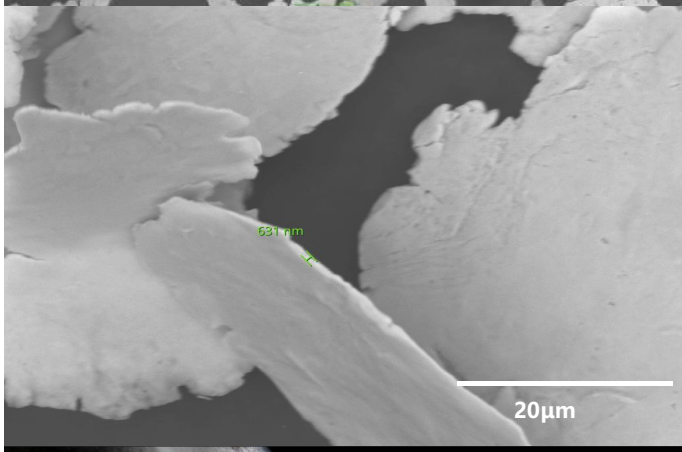
Mector® HE Series

HE Series Economy Absorbent Powder

Mector® HE High-Cost-Performance Series Wave-Absorbing Powder is a two-dimensional soft magnetic powder produced by flattening spherical or granular high-purity soft magnetic alloys (Fe-Si, FeSiAl). With rationally designed grain and dislocation structures, the powder exhibits high magnetic loss μ″, generating domain-wall resonance and natural resonance in the MHz-GHz frequency range, which benefits electromagnetic wave absorption. Wave-absorbing materials made from this powder are mainly used for electromagnetic noise suppression inside 3C electronics.





Product Features & Advantages

- High imaginary part μ″ loss;
- Narrow particle size distribution, high filling efficiency, regular particle morphology and excellent dispersibility in resins;
- Halogen-free and eco-friendly, complying with EU RoHS Directive, REACH and other regulatory requirements.

Typical Applications

- EMI wave-absorbing films and coatings;
- Laptop GPU, DDR, motherboard (MB), etc.;
- NFC/WPC, RFID.

Supply Form

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

Usage Method

- Permeability is measured by preparing 100 μm-thick magnetic sheets with 50 vol.% powder loading;
- Direct application is available based on customer-specific conditions.

WAVE VECTOR
铂韬新材

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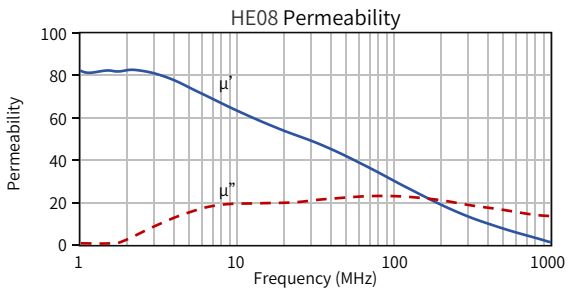
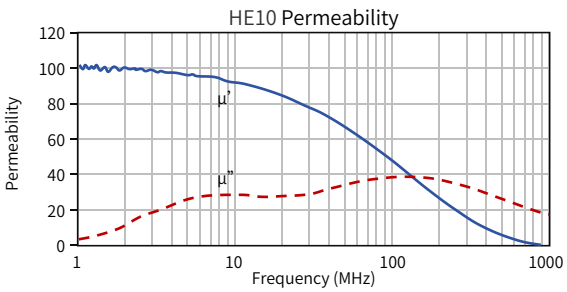
Item	HE08	HE10	Test Standard
A.D (g/cm^3)	0.6 - 0.8	0.6 - 0.8	GB/T 1479.2-2011
T.D (g/cm^3)	0.8 - 1.5	0.8 - 1.5	GB/T 5162-2006
D10 (μm)	15 - 25	20 - 30	GB/T 19077.1-2008
D50 (μm)	40 - 60	50 - 70	GB/T 19077.1-2008
D90 (μm)	100 - 130	110 - 140	GB/T 19077.1-2008
Permeability μ’ @3MHz	70 - 90	90 - 110	GB/T 32596-2016
Operating frequency (Hz)	Sub-3.2G	Sub-3.2G	GB/T 32596-2016
Shipping specifications (customizable)	25 kg/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

HE 08 - X

① ② ③

① Product category: HE = economical

② Permeability: 08=80 permeability

③ Special code: such as different formula systems or special requirements

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