

# Mector® HA Series

## HA Series High Bulk Density Absorbent Powder

Mector® HA High Bulk Density Series Absorbent Powder is manufactured by long-term ball-milling of high-purity gas-atomized FeSiAl in high-viscosity compound solvents, followed by secondary shaping and surface modification of the powder. Featuring smooth particle edges and strong deformation resistance, the powder maintains stable magnetic properties during internal mixing, open mixing and multi-roll calendaring with various rubbers. Absorbent materials made from this powder are mainly applied in magnetic isolation and anti-interference solutions for NFC.

### Product Features & Advantages

- Produced by flattening high-purity gas-atomized spherical powder with high-precision morphology control;
- Excellent deformation resistance and flowability, with low oxygen content;
- Halogen-free and eco-friendly, complying with EU RoHS, REACH and other regulatory requirements.

### Typical Applications

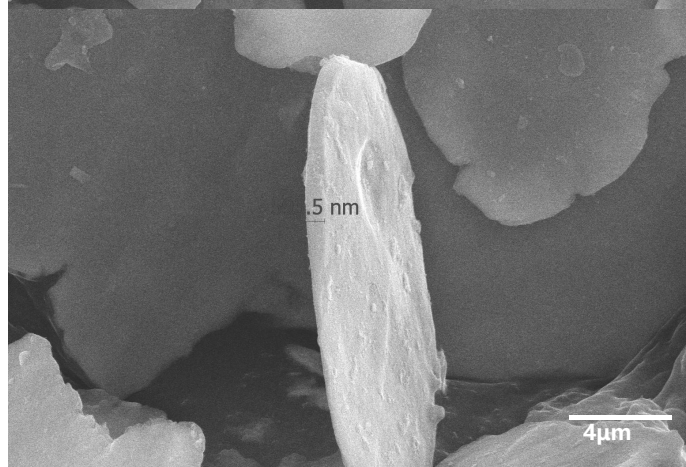
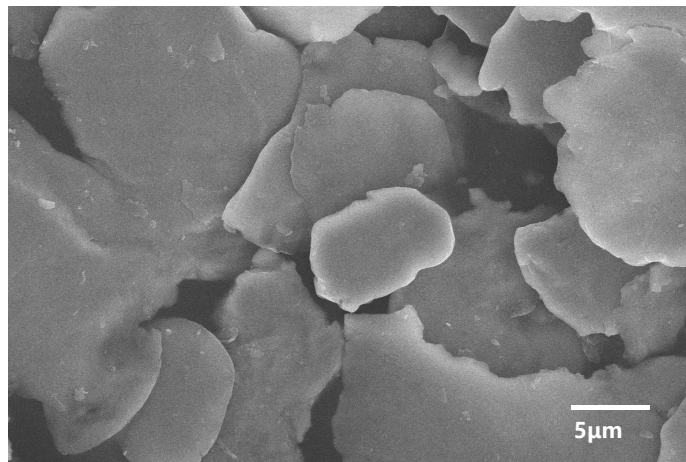
- Magnetic isolation sheets, electromagnetic absorbing materials;
- NFC/WPC, RFID modules.

### Supply Form

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

### Usage Method

- Permeability is measured by preparing 100  $\mu\text{m}$ -thick magnetic sheets with 50 vol.% powder loading;
- Direct application is available based on customer-specific conditions.

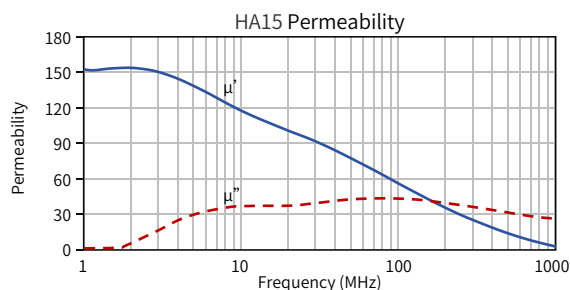
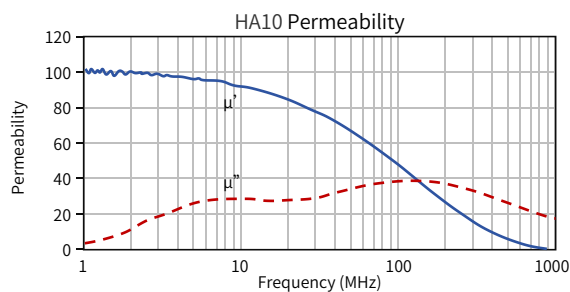
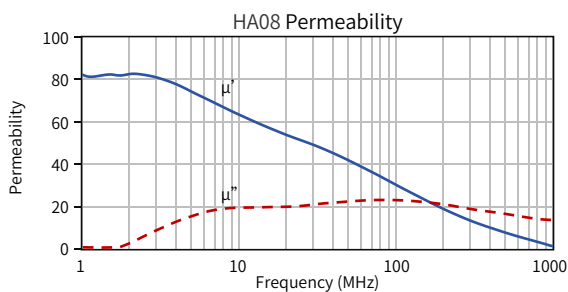


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Item	HA08	HA10	HA15	Test Standard
A.D (g/cm <sup>3</sup> )	0.8 - 1.1	0.7 - 1.0	0.6 - 0.9	GB/T 1479.2-2011
T.D (g/cm <sup>3</sup> )	1.8 - 2.3	1.6 - 2.1	1.4 - 1.9	GB/T 5162-2006
D10 (μm)	8 - 18	20 - 30	30 - 50	GB/T 19077.1-2008
D50 (μm)	30 - 45	50 - 70	75 - 95	GB/T 19077.1-2008
D90 (μm)	65 - 85	100 - 125	135 - 165	GB/T 19077.1-2008
Permeability $\mu'$ @3MHz	70 - 90	90 - 110	135 - 165	GB/T 32596-2016
Operating frequency (Hz)	Sub-1G	Sub-1G	Sub-1G	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

#### HA 08 - X

① ② ③

- ① Product category: HA = high bulk density
- ② Permeability: 08=80 permeability
- ③ Special code: such as different formula systems or special requirements