

Mector[®] HR Series

HR Series High-reliability Absorbent Powder

Mector™ HR High-Reliability Wave-Absorbing Base Powder adopts various coating schemes (such as Al_2O_3 , Si, P, CNT coating, etc.). These coatings not only reduce surface activity and significantly improve oxidation resistance of powder materials during processing, transportation and subsequent application, but also adjust impedance matching and enhance loss performance.

Product Features & Advantages

- High reliability achieved by surface coating with different materials (Al_2O_3 , P, Si, CNT);
- High filling efficiency, ultra-broadband application up to 110 GHz;
- Halogen-free and eco-friendly, complying with EU RoHS Directive, REACH and other regulatory requirements.

Typical Applications

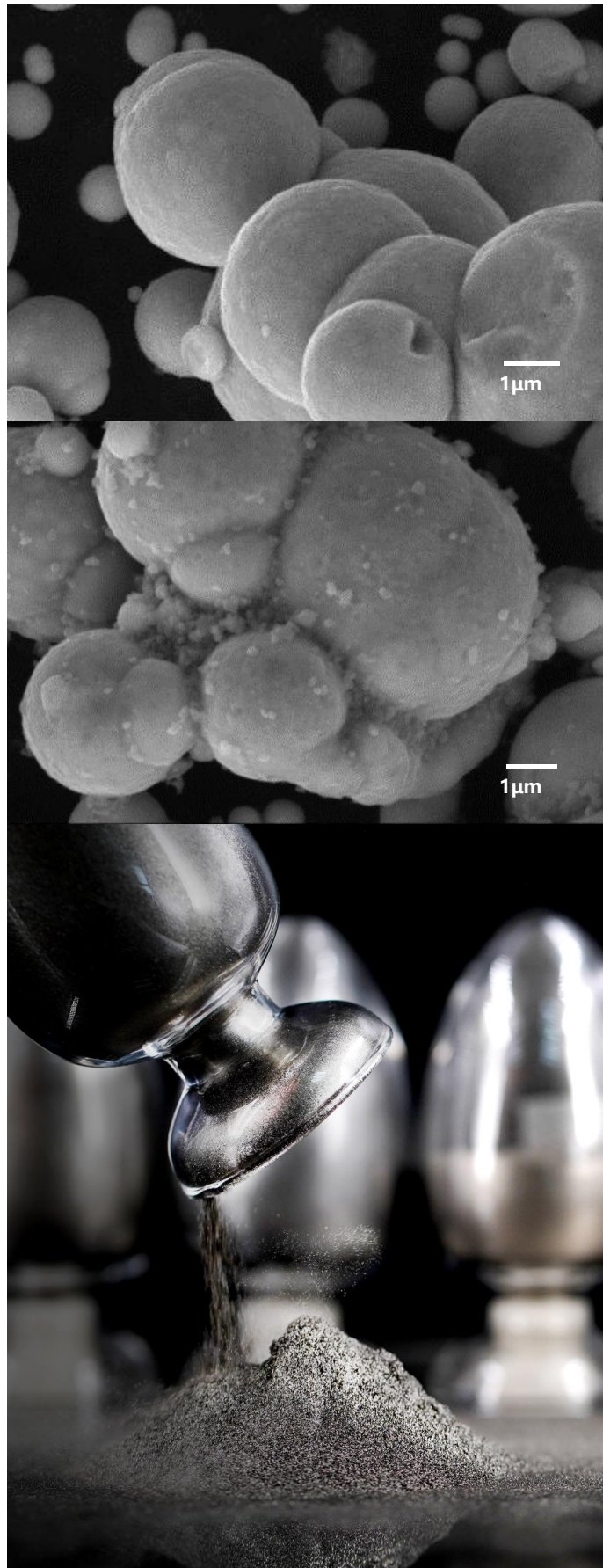
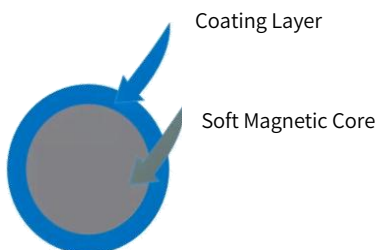
- Wave-absorbing gaskets, coatings and adhesives;
- End-use applications: outdoor base stations, satellite communications, millimeter-wave radars.

Supply Form

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

Usage Method

- Permeability is measured using 1 mm-thick magnetic sheets containing 50 vol.% powder;
- Direct application is available based on customer-specific conditions.

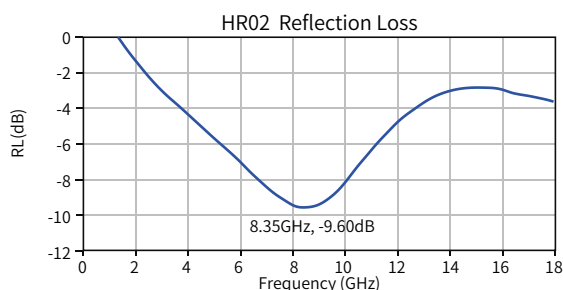
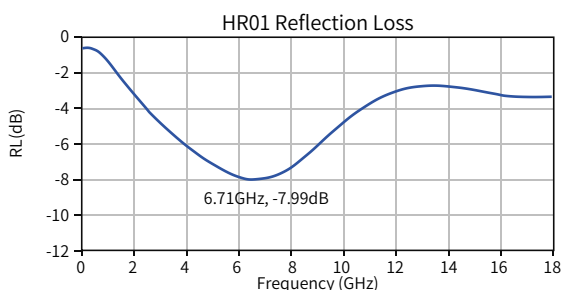


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Item	HR01	HR02	HR03	Test Standard
A.D (g/cm ³)	2.2 - 3.2	2.0 - 2.9	2.0 - 3.0	GB/T 1479.2-2011
T.D (g/cm ³)	3.5 - 5.0	3.5 - 5.0	3.5 - 5.0	GB/T 5162-2006
D10 (μm)	1.0 - 2.5	1.0 - 3.0	1.0 - 3.0	GB/T 19077.1-2008
D50 (μm)	4.0 - 6.0	4.0 - 7.0	4.5 - 7.5	GB/T 19077.1-2008
D90 (μm)	8.0 - 12.0	8.0 - 12.0	9.0 - 13.0	GB/T 19077.1-2008
Neutral salt spray test (h)	72	72	48	GB/T 2423.17-2024
Operating frequency (Hz)	1 - 26.5G	1 - 40G	1 - 40G	GJB 2038A-2011
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

HR 01 - X

① ② ③

- ① Product category: HR=High Reliability
- ② 01 represents the serial number and has no special meaning
- ③ Special code: such as different formula systems or special requirements

