

Spherical Soft Ferrite

OVERVIEW

We have developed a spherical particle using our own soft magnetic ferrite. The particle has excellent properties for filling and dispersing in resin due to its high sphericity and surface smoothness. It is suitable as a filler dispersed in resin and can be used for magnetic shielding materials, circuit board applications, etc.

FEATURES

High filling properties

Due to its high sphericity and surface smoothness, it has a superior filling property for resin.

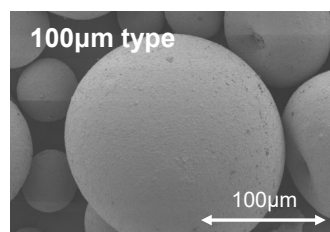
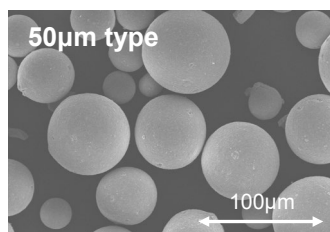
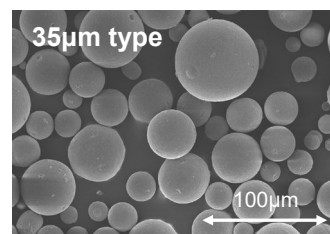
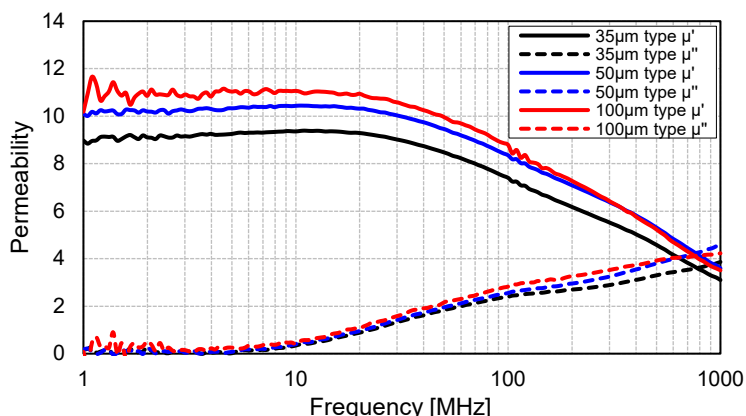
Various magnetic properties

We supply soft ferrite particle with requested magnetic properties by controlling physical properties such as particle size and composition.

CHARACTERISTICS

[Characteristics of typical samples]

Type		35 μ m type	50 μ m type	100 μ m type
Kind of soft ferrite		Ni-Zn type	Ni-Zn type	Ni-Zn type
Particle size distribution	D10 [μ m]	25.0	30.3	70.0
	D50 [μ m]	36.7	50.4	111.0
	D90 [μ m]	53.6	80.5	170.0
Permeability (60vol% filled in resin)	μ' at 50MHz [-]	8.5	9.5	10.0
	μ' at 100MHz [-]	7.4	8.4	8.8
Magnetic property (60vol% filled in resin)	Saturation magnetization [mT]	256	239	192
	Remanent magnetization [mT]	7.4	6.8	5.8
	Coercivity [kA/m]	1.4	1.4	1.3



[SEM images of spherical soft ferrite]

APPLICATIONS

- Noise suppression materials
- Semiconductor sealing materials
- Circuit boards

