

Steward

Advanced Materials

Product Data Sheet: Ferrite Loading Powder 73399

Steward Advanced Materials provides a fully reacted fine particle ferrite loading powder 73399 with an average particle size of approximately 10 μm based on laser diffraction test method. This energy attenuation powder may be compounded into elastomers for extrusion and roll compacted applications.

Applications include but are not limited to noise suppression for automotive ignition cable, inductive filters, microwave quick-cure, and additive to clean photo-receptor.

Powder loading densities, distribution and thickness of binder have a significant affect on the amount of attenuation.

Particle Geometric Features:

Ferrite Loading Powder 73399 – Angular APD ~ 10 μm :

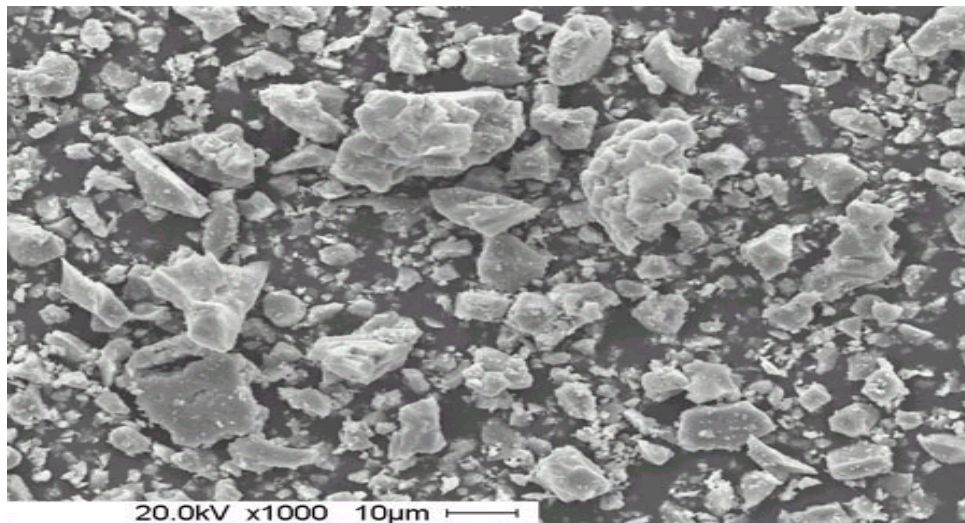


Figure 1: SEM photo of 73399 at 1000 magnification

Typical Values:

Properties	73399
Magnetic Saturation (EMU/g)	80
Bulk Density (g/cm ³)	2.2
Surface Area (BET in m ² /g)	1.5
APD Micrometers Coulter (μm)	10
Curie Temperature (°C)	205
Moisture %	< 0.2

Typical Ferrite Constants:

Ferrite Material Constants	73399
True Density (g/cm ³)	4.9
Specific Heat	0.25 cal/g/°C
Thermal Conductivity	10x10 ⁻³ cal/sec/cm/°C
Coefficient of Linear Expansion	8-10x10 ⁻⁶ /°C
Hardness (Knoop)	650

To discuss your specific applications and request samples for testing please contact Scott Smith at:

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