

MF-402 Type CR Powder

Microwave Absorbing Powder



MF-402 Type CR powder is an Iron Chrome silicide product providing low corrosion, high temperature and high magnetic saturation properties. It has enhanced electromagnetic properties in comparison with Iron silicide and Iron aluminide, yet retains significant anti corrosion and elevated temperature properties. With a nominal Curie point similar to Carbonyl Iron Powder, this product will perform day in and day out in high heat flux and aggressive environmental conditions.

Features:

- Precision alloyed Iron Chrome Silicon powder with a proprietary coupling agent to provide enhanced bonding
- Broad Banded RF Absorption for Thin Coats
- Excellent electromagnetic absorption
- Oxidation Resistant
- Can be compounded or dispersed

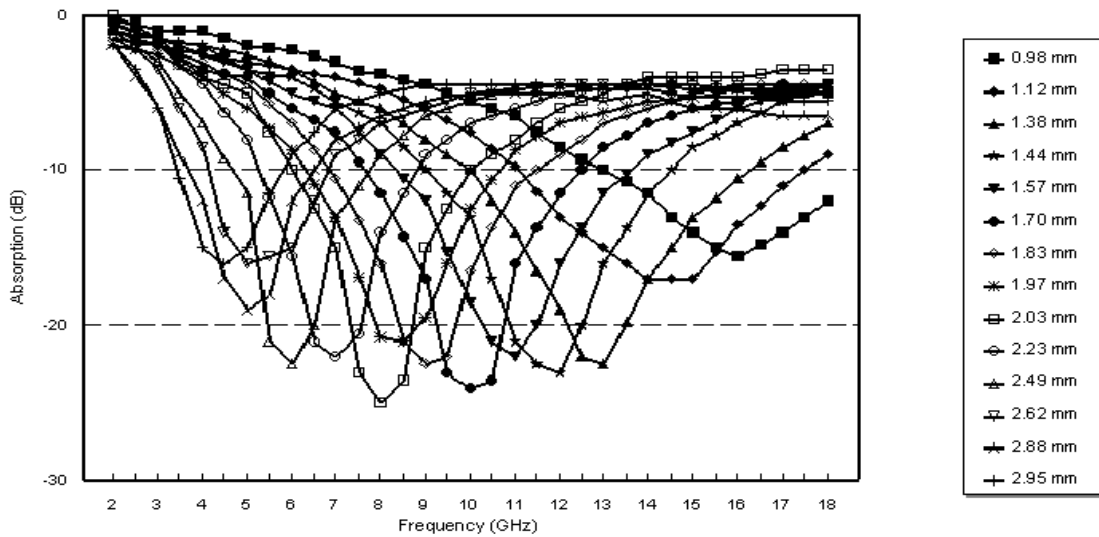
Applications:

- Extraneous Reflection Reduction of cavity enclosures
- Extraneous Reflection Reduction of active devices
- Excellent Near Field and Far Field Absorption
- Low Observable

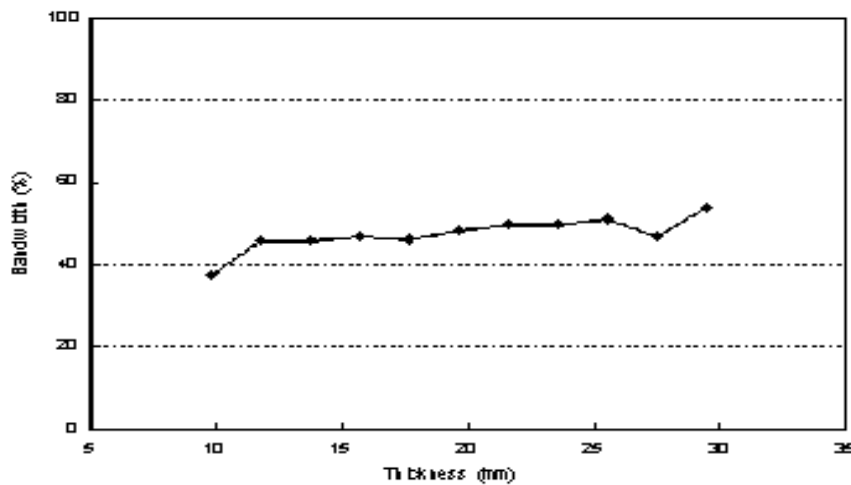
Mechanical Data:

- Particle Diameter: 5-25 microns
- Color: Charcoal Grey
- Density : 7.2 gm./mil
- Oxidation Resistance: > 900 °C
- Environmental Resistance: Salt , Solvent, and Corrosion

Typical performance curves - Far Field



MF-402 Type CR powder is a resonant absorber. The center frequency in the far field is a function of thickness after cure. Typical data is shown above.



Typical performance yields a -10 dB bandwidth better than 40%