

RF C13 Absorb©

RF Absorption Nano Science Technology

Additive Technology Carbon Particles Microwave Absorption - Electrical Properties

RF C13 Absorb© Product Information Sheet

These RP Tempering™ Technologies and Patented Engineering Techniques were developed for Rapid Manufacture parts made from SFF systems. SFF technology presents the industry with an opportunity to design and manufacture end application parts that typical manufacturing methods cannot achieve. Internal wall geometry can be controlled better than ever. Earl Dunlap P.E. has just been awarded 74 claims on his RP Tempering™ Patent based on ways to use internal wall geometry and additive materials to enhance SFF parts in Mechanical Properties, Electrical Properties, Thermal Properties and Chemical & Environmental Resistance Properties. Below we have listed some general information about our progress for RF applications:

Radar/Microwave Absorbing Materials Designed to Attenuate or Absorb Microwave Energy

- Microwave Energy Absorbers Example: attenuation ranging from 5dB to 15dB on SFF honeycomb substrate.
- Dielectric loss to absorb the electric field of an electromagnetic wave
- Absorb propagated microwave energy
- Load Absorber
- Cavity dampening Absorbers

Result: Reduced Broadband (frequency & angle), Volumetric, Conducting Ground Plane & RAS High Frequency behavior.

Microwave Magnetic (loss) Absorbers (fillers) Available:

- Iron Particles
- Iron Ferrite Particles
- Nickel Particles
- Other specialty particle disbursement

Resonant Dampening Absorbers Available:

- RP Tempering™ Compounds with Multi-walled Carbon Nano Tubes (MWCNTs)
 - Back fill complex SFF internal wall geometry
 - Use as coating
 - Can be excellent electrical insulator
- Proto-Plasma-Rx™ Spray
 - Can be used as an insulation barrier
- Proto-Reinforcement© Infiltrate Coating

Results: Wideband behavior (interference/absorption), Increase Bandwidth, Frequency Dependent (UHF & GHz Range)

Applied Carbon Varied Result:

- Absorb Microwave Energy
- Electromagnetic wave propagating empty space
- Dielectric Loss
- Conductive
- Reduces Bandwidth (frequency & angle)
- ROS high frequency behavior

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