

## MMG Dark-Shield® Technology for Maximum MW Energy Absorption



MMG Dark-Shield® Technology Powders are designed to achieve maximum energy absorption into microwave frequencies.

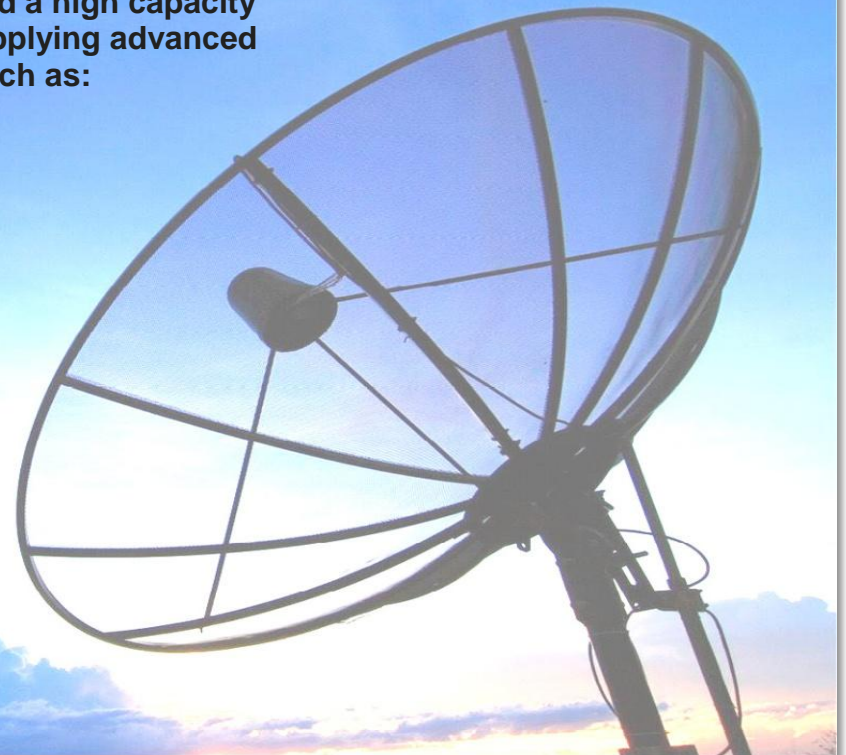
With North American based know-how and a high capacity manufacturing facility, MMG has been supplying advanced electromagnetic powders to industries such as:

- Aviation
- Military
- Automotive
- Medical
- Industrial

### Product Highlights:

Extreme wide temperature range  
Ability to target specific frequencies  
Several particle sizes available  
Ability to mix to:

- Elastomers
- Paint and other coating materials
- Building materials

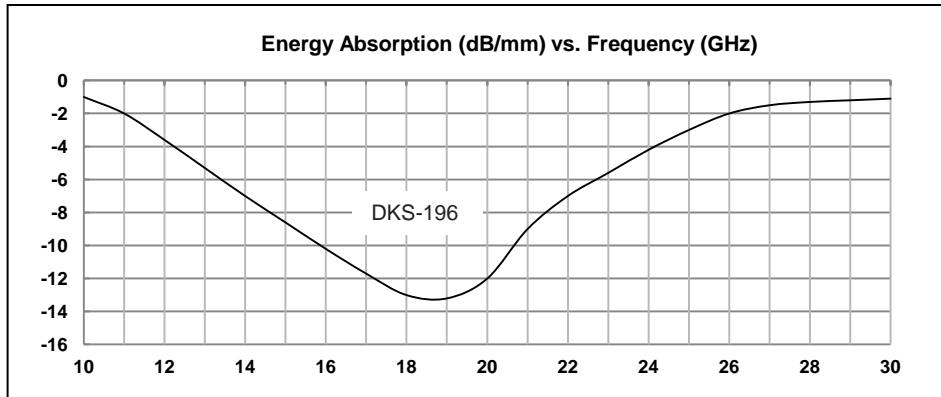


## MMG Advanced Microwave Materials Overview:

In keeping with our market leader status in the Radio Frequency industry, MMG presents a new line of Advanced Microwave Materials. These materials are ready to use fully sintered powders specially designed to absorb electro-magnetic energy from below 1 MHz to above 30 GHz range.

Several grades are available, ranging from low permeability insulating particles to high permeability conductive particles.

MMG's unique powder processing technique offers superior magnetic density allowing for full application flexibility including extrusion, molding, injection, spray in place, fill in place, potting compound, magnetic fluid, function additive and thin film solutions.



## MMG Dark-Shield® Material Highlights:

- Able to target specific frequencies or cover broad MW band spectrum
- Capable of concentrating electromagnetic energy towards a target
- Possibility of mixing with an extensive range of materials and compounds. Fully Compoundable
- Complex shapes, endless geometry options, no restriction in sizes and or thicknesses
- Light weight and weather resistant
- Low dimensional tolerances
- The powder compounds can be injected, pressed, molded, spread or sprayed in place in order to achieve their characteristic features
- The finished part can be machined, diced, die cut or polished
- High strength material
- Wide surface coverage
- Penetration into restricted spaces
- Grain sizes from .002 to .02 inches (50 to 500  $\mu\text{m}$ )
- High mechanical and chemical stability
- Complete assembled solution direct from MMG or assembled at your facility

MMG applications engineering staff is available to assist in engineering your solution in compounding or providing a complete assembled solution.



MMG is a global supplier and world leader in advanced design, development, assembly and manufacture of magnetic materials and components.

MMG offers a diverse and comprehensive product line in soft ferrites, permanent magnets, powder technology, with a wide array of advanced application specific products and technologies.

MMG has world class manufacturing bases in North America and Asia and applications engineering staffed facilities around the world.

MMG is perfectly positioned to provide local support to all our customers for all their magnetic needs.

Head Office and Engineering: 10 Vansco Road - Toronto, ON - M8Z 5J4 - Canada.

MMG Canada Ltd. Tel: +1 (416) 251-2831 Fax: +1 (416) 251-6790 Web: [www.mmca.com](http://www.mmca.com) Email: [sales@mmca.com](mailto:sales@mmca.com)

Authorized Distributor / Sales Representative:



Toll Free: 1(877)746-4764 - Phone: (519)746-4761

