

Momentive Performance Materials Metal Coated Particles

Category : Ceramic

Material Notes:

Metal Coated Particles feature:Uniform coverageThick or thin coatingsShorter production cyclesLower costsMass production capabilityNew Metal Coated Particle (MCP) Technology from GE Advanced Ceramics lets you cost-effectively increase product performance. In metal matrix composites (MMCs), for example, the use of MCP materials can improve mechanical properties by 30-100% or more. And in thermal spray applications, metal coatings on ceramics and other materials can improve capture efficiency and composite uniformity versus other methods. MCP products can be used for abrasable seals, P/M parts, cutting tools, magnets, electrical contacts, and other components for consumer, automotive, aerospace, electronic, and electrical applications.MCP technology is one of the few processes that can apply consistent, high-quality metal coatings to a wide range of particulate materials. Particles, for example, can range from less than 10 microns to more than 5 mm (depending on particle density and shape). Coatings can be as thick as 50% or more by volume or as thin as 0.5% by volume. Coverage of each particle is uniform and complete. And this new process can coat particles 10-20 times faster than other techniques, significantly lowering the cost of production.Virtually any particle that can be wetted by and does not react with water and has a specific gravity greater than 1.0 is a candidate for coating. Coatings include: Cobalt, Copper, Nickel, Iron, Tin, Zinc, or combinations thereof. Materials coated include Alumina, Aluminum, Aromatic polyester, Boron nitride, Graphite (synthetic, natural flake, and whiskers), Iron, Molybdenum, Neodymium/iron/boron, Samarium Cobalt, Silicon carbide (grains and whiskers), Stainless steel, Titanium diboride, Tungsten, Tungsten carbide, and Zirconia.Information provided by Momentive Performance Materials, formerly GE Advanced Ceramics.

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