

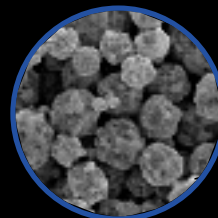
It's *not* an illusion.



Save more than 50% on precious metal costs with SMP's new metal-ceramic composites.

Y2K+ is a trademark of Superior Micropowders, L.L.C.

A new alternative to pure precious metal powders and related admixes, SMP metal-ceramic composite powders are more than sleight of hand. Enabled by unique powder technology, the amount of precious metal needed for many microelectronic applications, such as chip components, is significantly reduced, resulting in dramatic cost savings with improved performance and yields.



Silver-Palladium Alloy/Barium Titanate composite powder.

SMP metal-ceramic composites are spherical, homogeneous, three-dimensionally interconnected structures.

Like all SMP micropowders, such as our hollow microspheres, glasses, phosphors and electro-catalysts, the metal-ceramic composites offer advanced characteristics such as spherical morphology, controlled fine particle size distributions and excellent compositional accuracy and reproducibility. Any metal/ceramic composition can be tailored for customer-specific applications.

	Oxidation Resistance (% wt. change)	Thermal Shrinkage (% linear change relative to std. dielectric @ 800°C)
Standard 70/30 Ag/Pd	3	-7.5
SMP 70/30 Ag/Pd ceramic composite	<1	-0.5

Improved performance leads to increased yields without sacrificing electrical performance.

Sound too good to be true? It's not. These micropowders, which are a part of SMP's new Y2K+™ series, are produced in a functional particle size range for the majority of today's electronic industry applications including MLCC's and state-of-the-art hybrid circuits. Prove it for yourself.

Contact SMP for more information today.



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