



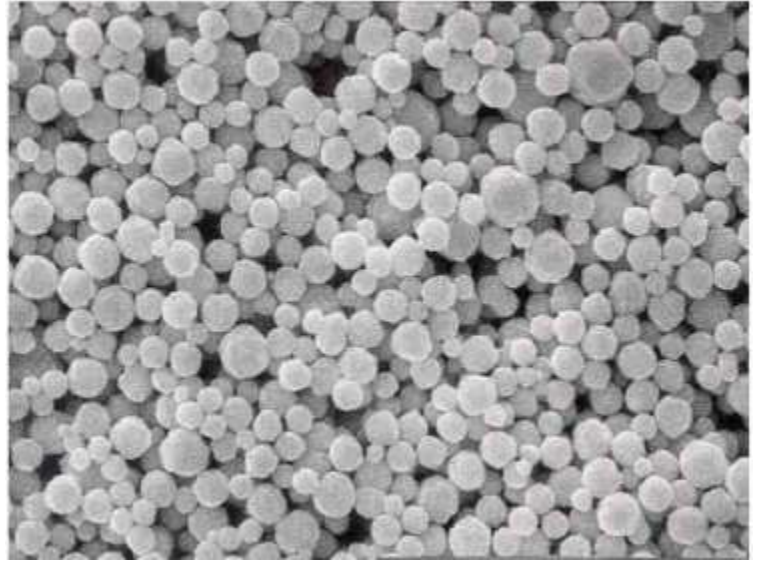
## 90%Ag / 10%Pd Powder AgPd 7007 Series

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Cermet's 90%Ag / 10%Pd AgPd 7007 powder is a highly alloyed, monosized spherical powder, designed as an inner electrode for MLCC Ultra Low Fire (ULF) dielectrics. This powder demonstrates good dispersion characteristics and is ideal in applications where smooth, thin, and low laydown conductive metallizations are required.

Cermet 90%/10% Pd metal powders are also available with a variety of organic and inorganic coatings to affect shrinkage, oxidation, and wetting characteristics.

We welcome the opportunity to develop new products for your unique requirements.



10kx SEM of 90%Ag/10% Pd AgPd 7007

### TYPICAL POWDER CHARACTERISTICS

Characteristics	Parameter	Procedure
Surface Area (m <sup>2</sup> /g)	1.0 – 2.0	BET Method
Tap Density (g/cm <sup>3</sup> )	2.2 – 5.0	Tap-Pak Volumeter
PSD D90 (μm)	0.6 – 2.3	Horiba CAPA
PSD D50 (μm)	0.4 – 1.5	Horiba CAPA
PSD D10 (μm)	0.2 – 1.0	Horiba CAPA

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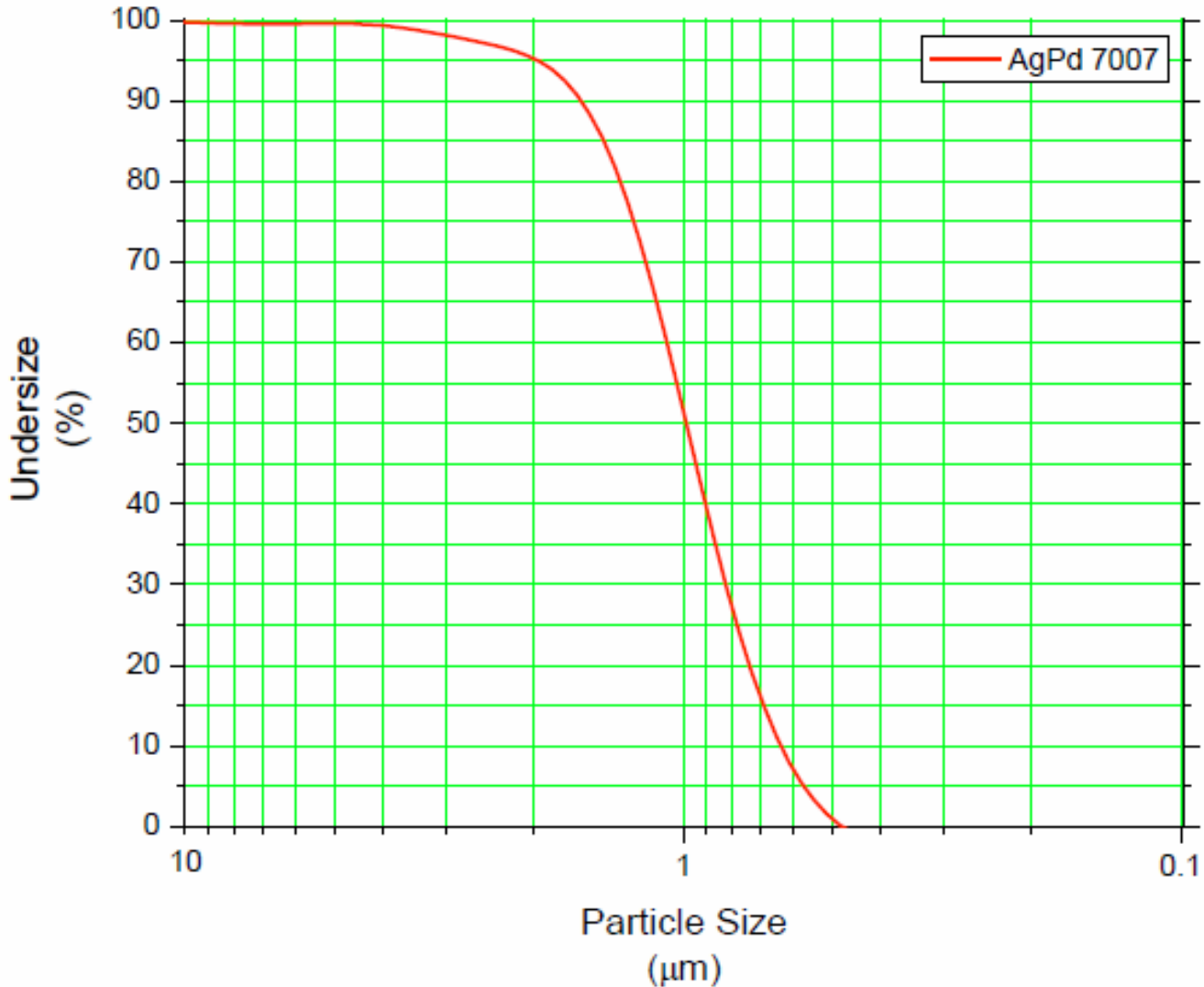
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CERMET

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Typical AgPd Particle Size Distribution Characteristics



Micromeritics Sedigraph 5100, A12 Sedisperse Media

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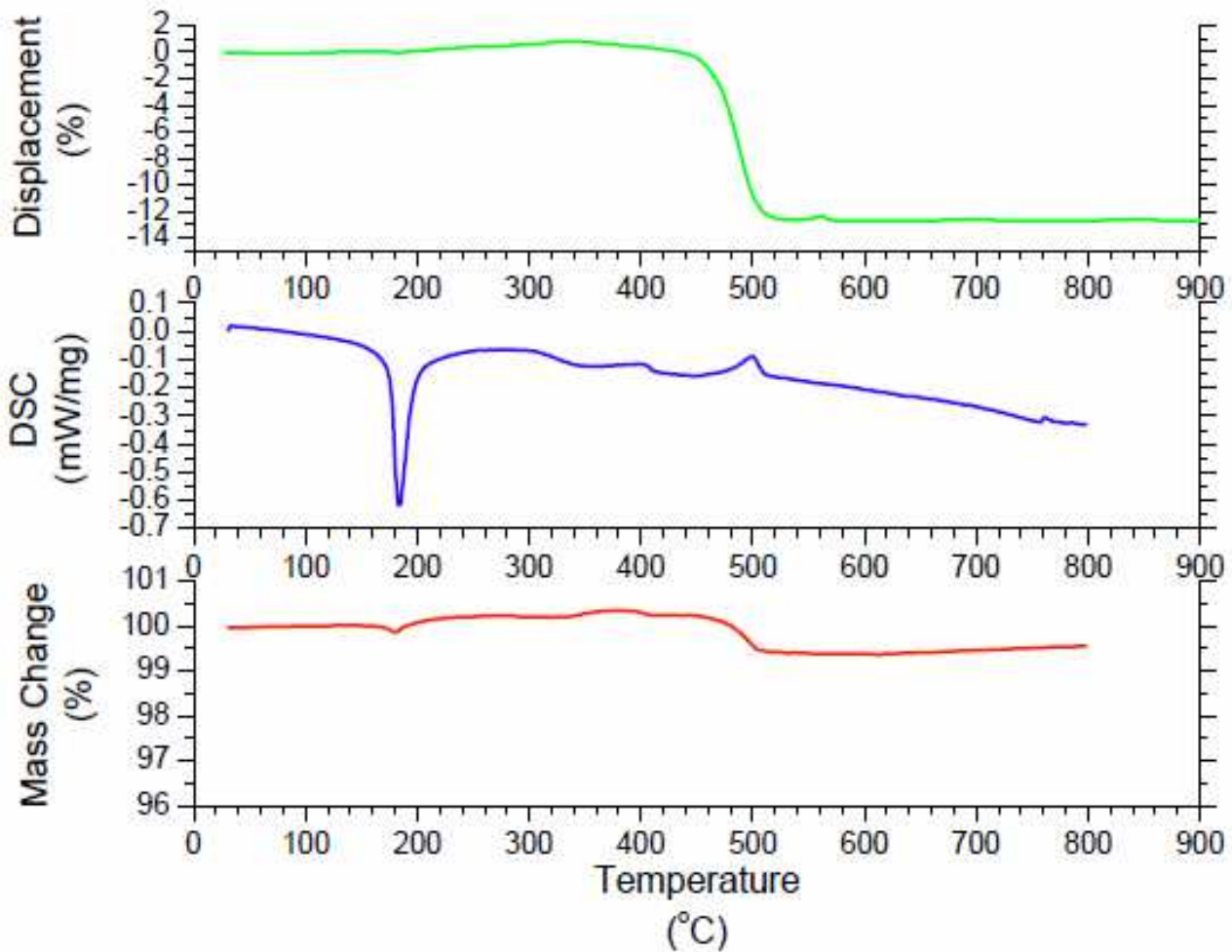
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# CERMET

## 90%Ag / 10%Pd Powder AgPd 7007 Series

### AgPd 7007 Typical Thermal Characteristics



Netzsch STA 449, DIL 402C  
Scan Rate: 10°C min<sup>-1</sup> in air

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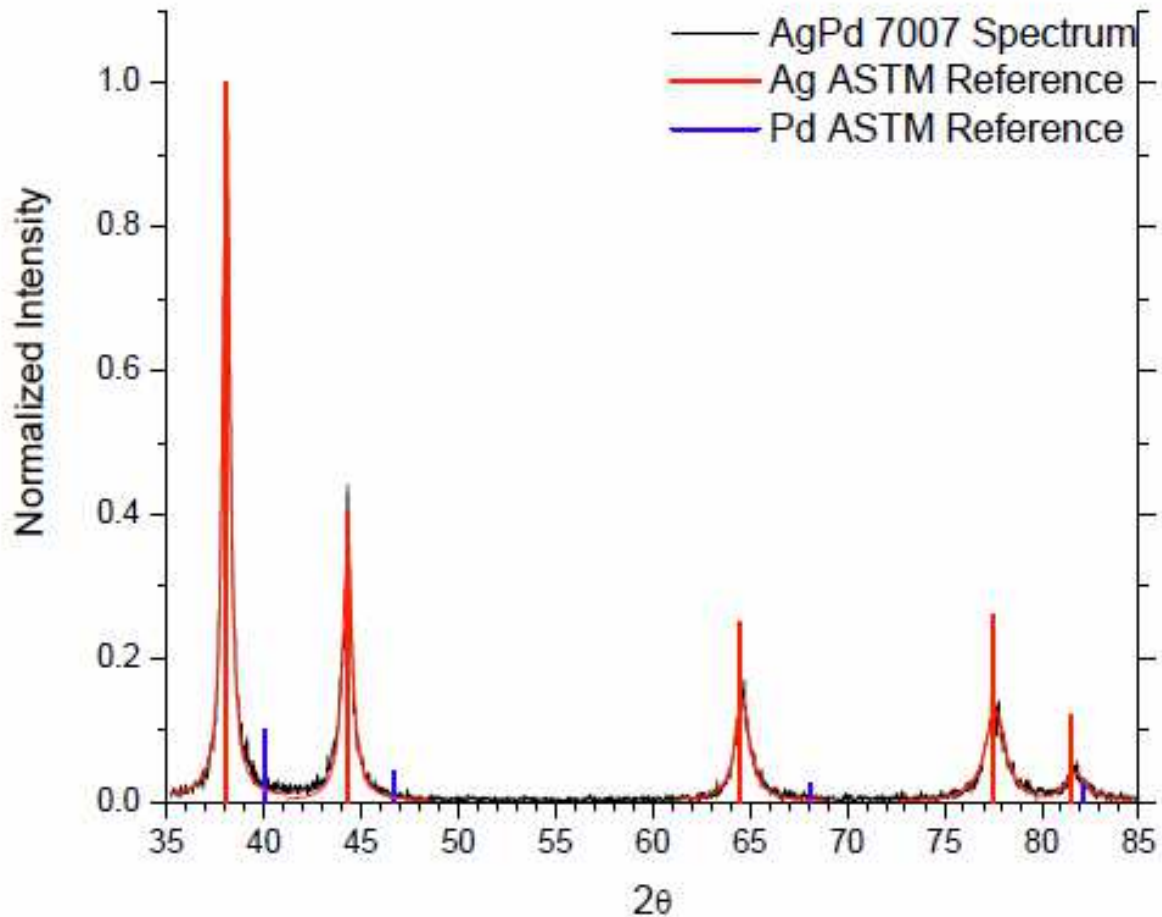
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## 90%Ag / 10%Pd Powder AgPd 7007 Series

### X-Ray Diffraction Pattern of 90Ag/10Pd 7007 Powder



Siemens D500 Diffraktometer  
1200 WATTS, Step Size 0.03, Dwell 1.0 s

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