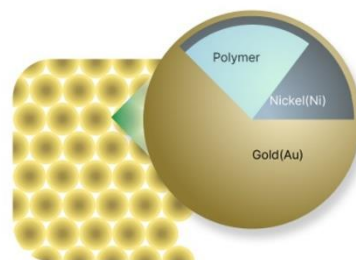


Spherica® Au & Ni series

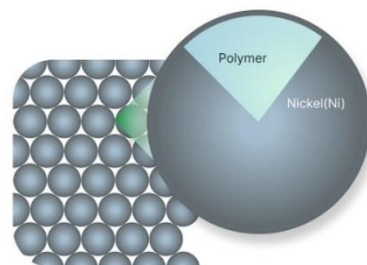
Monosized nickel/gold-coated polymer particles



Monosized gold-coated polymer particles

Product features

- Tailored mechanical properties of polymer core
- Excellent electrical performance
- Narrow size distribution



Monosized nickel-coated polymer particles

Products

	Au-5-02	Ni-5-01	Au-5.5-01	Ni-5.5-01	Au-10-02	Au-20-01	Au-30-01
Particle core diameter (µm):	4.8 ± 0.3	4.8 ± 0.3	5.3 ± 0.3	5.3 ± 0.3	10.0 ± 0.8	20.0 ± 1.0	29.0 ± 3.0
Polymer core material:	Styrene	Styrene	Styrene	Styrene	Styrene	Styrene	Styrene
CV (%):	< 5	< 5	< 5	< 5	< 5	< 5	< 5
T _g of polymer core:	None ¹	None ¹	None ¹	None ¹	None ¹	None ¹	None ¹
Decomposition temp. polymer core (°C):	> 340	> 340	> 340	> 340	> 340	> 340	> 340
Nickel thickness (µm):	0.12	0.12	0.11	0.11	0.12	0.12	0.125
Nickel content (wt%):	46 – 48	56 – 59	42 – 44	51 – 54	28 – 31	21 – 22	16 – 18
Gold thickness (µm):	0.02	-	0.02	-	0.02	0.02	0.025
Gold content (wt%):	17 – 18	-	17 – 18	-	13 – 14	8	7
Material density (g/cc):	2.4 – 2.6	2.1 – 2.2	2.3 – 2.4	1.9 – 2.0	1.7 – 1.8	1.4 – 1.5	1.3 – 1.4
K-value @ 5% deformation (GPa):	3.8	3.8	3.8	3.6	3.5	3.6	3.5
K-value @ 10% deformation (GPa):	2.9	2.9	2.9	2.9	2.9	2.8	2.8

¹ No T_g visible in DSC