

**E-FILL™ 2759****Standard Gold Clad Nickel Graphite Powder  
1Au/74Ni/25C 80µm**

E-Fill™ composite materials offer significant cost savings over pure gold without reducing performance. A gold coating less than 0.1 µm thick is all that is required to increase the conductivity\* of a material by 10 million times. The gold has the additional benefit of environmental stability, since it does not oxidize.

Sulzer Metco Canada's proprietary nickel coating process produces a ferromagnetic pure nickel coating. These properties are maintained through the gold coating process resulting in a coated composite material that can be magnetically manipulated to optimize the orientation and performance of the material.

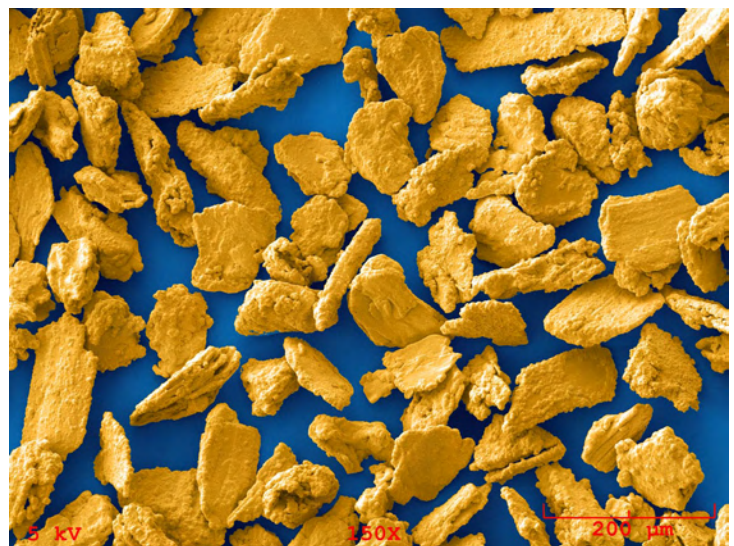
The nickel graphite substrate offers hardness, roughness and irregular shape that works well for conductive fillers in general.

E-Fill™ conductive fillers are excellent for any application that requires a stable highly conductive network. Uses include keypads, microphone holders, 'z-axis' connectors and specialty adhesives and inks.

**ISO 9001 and AS9100 Certified**

Specified Gold Content (wt. %):	0.8 – 1.2		
Microtrac Values - Typical (µm):	D10	D50	D90
	56	80	150 max
Volume Resistivity (Ω·cm): *(dry powder)	< 0.001		
True Particle Density (gm/cm <sup>3</sup> ):	~ 5.0		
Apparent Density - Hall (gm/cm <sup>3</sup> ): (ASTM B212)	~ 1.5(typical)		
Standard Packaging:	1 kg net in plastic jars		

\* based on internally developed measurement methods



SEM photomicrograph (color added digitally)

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