



Engineering Better Material Solutions

**-PRODUCT SPECIFICATION-**

**RadioOpaque Gold™**

Surmet's "Radio Opaque Gold Coatings" deposited by proprietary vacuum process are ideal for a variety of biomedical. The coatings consist of combinations of noble metals like gold, silver, platinum, etc., well-known for their bio-compatibility. Extremely dense, strongly adherent coatings are resistant to delamination when stressed to fracture; and also capable of achieving 100% attenuation of a fluroscopic spectrum which is so essential for the biomedical applications.

Property	RadioOpaque Gold™
Substrate	Metals, Ceramics and Polymers
Structure	Structure of Coating Metals viz. Au, Ag or Pt
Deposition Temperature, °C	150
Use Temperature, °C	Up to 200
Coating Thickness, μm	Up to 15 μm
Substrate size	No limits
Substrate Geometry	Suitable for coating patterned and complex shaped substrates
Electrical Resistivity, Ω-cm	Metallic coating, highly conducting
Co-efficient of friction	----
Hardness, DPHN	Soft
Wear/Abrasion resistance	Good
Corrosion Resistance	Highly corrosion resistant to aqueous conditions and bodily fluids
Applications	A variety of biomedical devices such as intravenous markers, implants, stent, guide wire and catheters, etc.
Special Property	<ul style="list-style-type: none"> <li>• Eliminate the need for crimping and swaging bands of metal on devices.</li> <li>• With excellent mechanical properties along with controlled stress the coatings are flexible and can easily be bent making it ideal for stent, guide wire and catheter applications.</li> </ul>