Opportunities for 3D Printing Precious Metals: Jewelry and Other Applications

Description: The author believes that 3D printing of gold, silver, platinum and precious metal alloys will present important opportunities for the 3D printing community in the near future.

- 3D printing has been of growing importance in the jewelry industry for a decade and we are about see 3D printing enter new territory; directly fabricated jewelry, timepiece components, and accessories made from precious metal powder
- We also expect new opportunities for 3D-printed precious metals to emerge in the medical/dental and electronics sectors. For example, 3D printers can be used with additive-appropriate gold alloy powders as a result of increasing awareness of complications developing from use of less-inert gold substitutes
- The budding area of 3D-printed electronics are expected to use silver and gold inks for customized and short run fabrication of antennas and PCBs

This new report identifies the market opportunities for 3D-printed precious metals and provides ten-year forecasts for them in both volume (Kgs) and value ($millions) terms. Breakouts by type of metal and application are also included as are product/market assessments of the leading equipment and service players in this space.

Readers of this report will gain insight into the established market for printed jewelry casts, directly fabricated jewelry and consumer products utilizing precious metal materials, as well as emerging uses for the 3D printing of precious metal powders and compatible precious metal materials. Coverage includes:

- Analysis of applicable print technologies, materials, printers, and market leaders
- Market opportunity segmentation by application, print technology, and material type
- Quantified scenario analysis for emerging trends in 3D printable precious metals
- Survey of relevant supply chains for 3D printed jewelry and consumer products utilizing precious metals

Reasons to Buy this Report

1) The most in-depth study of precious metal printing and 3D printed jewelry markets. 3D printing has made significant inroads into the production of jewelry over the past decade, and is a significant process in modern jewelry creation. No other study of production techniques, print technology, materials, and market scope exists to date for jewelry manufacturers and 3D printing professionals to measure new product development against in the area of printed jewelry!

2) Metal additive manufacturing system sales are exploding - and precious metal powder materials hold real potential for commercial value in several key 3D printing vertical markets. But adoption of directly fabricated precious metal components are tied directly to expansion or disruption of existing 3D printing and traditional production markets, such as the emergence of directly fabricated jewelry. In order to anticipate potential commercial impact of these areas, you need analysis and data on existing and emerging uses of 3D printing and new precious-metal capable systems.

3) Precious metal materials are extremely high value compared even to other high performance metals. Materials such as gold and silver alloys are desirable for their properties in a variety of applications, but due to their cost many alternatives have been created. However, in markets for jewelry, printed electronics, and dentistry, there is often no replacing the real deal. Learn how future print volumes in these applications will contribute to demand for valuable precious metal materials.

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