



**Applied
Engineered
Surfaces Inc.**

News Release

"the perfect surface is less than a micron away"

Ultra High Purity Medical Component Manufacturing



Specialists in UHP Metal Component
Manufacturing

AES Manufactures Ultra High Purity (UHP) Metal Components and provides UHP processing services for Medical, Semi-conductor, and Analytic Industries.

- **Precision Swiss CNC Machining**
- **Precision UHP Electropolishing**
- **UHP AWS_{TM} Cleaning - "ALL WATER SOLUBLE" – Ultra Clean Surfaces to Detectable Limits (PPB Levels Using HPLC)**
- **UHP Passivation_{TM} (UHPP_{TM}) Ultra Clean to ASTM A967**
- **Cleaning and Packaging in Class 100 Cleanrooms**

Production Capabilities Include:

- **Bio-Compatibility of Standard AES Processes Exceed the Most Stringent FDA Implant Requirements**
- **Cost Effective "turn-key" High Volume Manufacturing**

Components Produced Meet Stringent Bio-Compatibility and Toxicology Testing Including;

- **Cytotoxicity (in vitro)
Reactivity Grade 0,0,0
MEM Elution - Non-Toxic**
- **Hemocompatibility
Hemolytic Index 0%
Direct Contact Method**
- **LAL Bacterial Endotoxins
Kinetic Chromogenic
EU/ml <0.005 EU/dev <0.200
Kinetic Turbidimetric
EU/ml <0.006 EU/dev <0.240**