



AMETEK
SPECIALTY METAL PRODUCTS DIVISION

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**AMETEK DEVELOPS ULTRA-THIN TITANIUM STRIP FOR PACEMAKER
AND NEUROSTIMULATOR ENCLOSURES**

**Proprietary Process Technology Yields Ti 6/4 ELI Titanium Strip with
Outstanding Performance Characteristics and Gauges as Thin as 0.004
Inches**

WALLINGFORD, CT – AMETEK Specialty Metal Products now offers Ti 6/4 ELI (Grade 23) titanium strip in thickness gauges as low as 0.004 inches with outstanding performance characteristics that result from a newly developed proprietary technology. That technology draws on the unique expertise of two industry-leading AMETEK businesses: AMETEK Specialty Metal Products, a recognized innovator and pioneer in powdered metal technology, and Hamilton Precision Metals, the leading producer of specialty metal strip and foil for the medical implant market.

The combined manufacturing capabilities of these AMETEK businesses have resulted in an ultra-thin Ti 6/4 ELI (extra low interstitials) titanium strip with improved ductility and formability, making it ideal for such applications as pacemaker and neurostimulator enclosures. With its high strength, fracture resistance and compatibility with the human body, Ti 6/4 ELI titanium is becoming the preferred titanium alloy for orthopedic devices and medical implants.

AMETEK's proprietary technology utilizes a cold rolling and annealing process that yields titanium strip with outstanding microstructure characteristics and improved tensile strength and formability properties. Cold rolling eliminates the need to grind away as much as 50% of the starting material to achieve ultra-thin thicknesses. It also leaves zero opportunity for embedding grinding material on the surface of the finished strip. The annealing process significantly lowers hydrogen content and removes residual stresses. AMETEK Ti 6/4 ELI titanium alloy strip is available in sheets up to six inches wide with thicknesses ranging from 0.004 to 0.015 inches. Production quantities are available following completion of prototype orders.

AMETEK Specialty Metal Products is a world leader in metal powders, high purity strip, ultra thin metal foil, specialty wire, metal matrix composites, engineered shaped components and clad metal products with numerous patents in technically advanced metallurgical materials.

Hamilton Precision Metals specializes in rolling specialty metal strip and foil to the tightest tolerances and thinnest gauges in the industry. It's unique engineering and manufacturing capabilities allow it to achieve thicknesses down to 0.00006 inches or 1.5 microns.