High performance metal products for critical airframe and engine applications across the civil aircraft, defense and space sectors.

Our high strength, high pressure, heat resistant and lightweight metal products are engineered to enhance the performance and efficiency of aircraft worldwide.

- High Pressure and High Strength Tubes
- Ultra-thin, Heat Resistant Foils
- Highly Conductive Nickel Strip
- Precision Metal Strip
- High Tolerance Custom Shaped Wire
- Specialty Metal Atomized Powder
HIGH PRESSURE, HIGH STRENGTH PRECISION TUBES

NADCAP approved seamless titanium tubes engineered for aircraft hydraulic and pneumatic control systems up to 5,000 psi with excellent strength to weight ratios. Deliver substantial weight savings for reduced fuel consumption and operating costs.

Heat resistant stainless steel and nickel alloy tubes for extreme temperature and high-strength engine applications.

PRODUCTS
- Titanium: Ti CP (Grade 1 and 2), Ti 6Al-4V (Grade 5), Ti 3Al-2.5V (Grade 9), Ti 6Al-4V ELI (Grade 23), Ti A-40
- Stainless steel: 304, 316, 321, 347, 15-5PH, 17-4PH, 21-6-9, FV607
- Nickel alloy: 75, 263, 600, 625, 718, X-750, Waspaloy™
- Sizes: From 0.010 in (0.25 mm) to 1.5 in (38.10 mm) OD
- Seamless, welded and welded & redrawn (titanium seamless only)

APPLICATIONS
- Hydraulic and pneumatic control systems
- Actuation
- Instrumentation
- Landing gear
- Pitot tubes
- Convoluting / seals
- Engine fuel lines
- Fire suppression, drain lines and bleed air systems

Click for more details
www.finetubes.com  |  www.superiortube.com
Ultra-thin metal strip and foil in nearly any alloy rolled to the tightest tolerances and thinnest gauges in the industry – from 1.5mm (0.060”) down to 1.5 microns (0.000060”) in thickness.

We are experts in controlling consistency, precise thicknesses, specific mechanical, physical, electrical and magnetic properties and surface finish.

**PRODUCTS**

- Precision heat resistant brazing foil rolled from 0.0001” to 0.0004” (0.0025mm to 0.01mm) thick
- Metal strip for specialized sensor diaphragms
- Alloys: Stainless and heat-resisting steels, nickel and high-nickel alloys, nickel-base superalloys, cobalt-base superalloys, custom alloys, copper and copper alloys, titanium, controlled-expansion alloys

**APPLICATIONS**

- Brazing foils used in jet engine fan blades, vanes and housings. Placed between the inner and outer skins on both sides of a metal honeycomb, the brazing foil joins critical parts of the engine
- Diaphragms for specialized aerospace sensor applications

Click for more details

www.hpm metals.com
HIGHERLY CONDUCTIVE NICKEL STRIP

Our high purity nickel strip battery connectors deliver 15-20% higher conductivity than traditional cast nickel strip connectors.

We employ a well-established Wrought Powder Metallurgy process for roll compacted strip which achieves the highest purity commercially available. This means reduced impedance and increased conductivity in battery tab connectors delivering higher transmission of power.

PRODUCTS
- Highest purity (99.98%) for greater conductivity
- Low impedance
- Available nickel grades: Ni200, Ni 201, Ni270, 899L and 899A
- Thickness range: Down to 50 microns
- Standard and custom sizes & tempers
- Customizable materials
- Small minimum order sizes
- Short lead times

APPLICATIONS
- Aerospace batteries
- Heat exchangers
- Bellows

Click for more details

www.ametek-ct.com
HIGH TOLERANCE CUSTOM SHAPED WIRE

Specialty shaped wire and flat wire products in an extensive range of standard and custom shapes and alloys.

Our wrought powder metallurgy process delivers proven advantages—purity, consistency, and close compositional control. These advantages give our customers improved die wear, formability, and platability.

Used primarily in aircraft push-pull mechanisms to deliver remote activation of aerospace controls. Our shaped wire is used by manufacturers of these devices to build a bearing controlled linkage for applications requiring high tension and compression forces and tight radii for the cable assembly.

PRODUCTS
- Alloys: Aluminum, copper, copper alloys, nickel, nickel alloys, stainless steel, custom
- Shapes: Round, square, rectangular, half-round, hex, flat-wire, bunched, custom
- Sizes: Square 0.010” to 0.200”, round 0.004” to 0.250”, flat 0.008” x 0.018”
- Edge capabilities: Square edges, rounded corners, natural rolled or round edges, full rounded or blended edges

APPLICATIONS
- Push-pull mechanisms required for remote activation of aircraft controls, fuel shutoffs, fasteners, landing gear and emergency controls
- Lock collar tape for aerospace rivets

Click for more details
www.ametek-ct.com
SPECIALTY METAL ATOMIZED POWDER

We supply several products through qualified AS9100 powder producers. Many of our products are key constituents of blends or some of the original materials used in aerospace thermal spray metallic coatings.

PRODUCTS

- 80/20 nickel chrome
- PF 60
- Inconel 600
From commercial aircraft to fighter jets and satellites, our metals enhance the performance of the aerospace sector.

**Customer approvals include:** Airbus, Boeing, Bombardier, Embraer, GE Aviation, Liebherr, Lockheed Martin, Raytheon, Rolls-Royce, SNECMA-SAFRAN, UTC and more.
ABOUT AMETEK SPECIALTY METAL PRODUCTS

AMETEK Specialty Metal Products (SMP) is a division of AMETEK, Inc. a leading global manufacturer of electronic instruments and electromechanical devices with annual sales of approximately $5 billion.

AMETEK has 18,000 colleagues at more than 150 operating locations, and a global network of sales, service and support locations in 30 countries around the world.

The Specialty Metals division consists of five businesses and operating facilities in the United States and the United Kingdom. All are proven experts in the manufacture of advanced metallurgical products including precision metal strip, ultra-thin foil, specialty shaped wire, engineered shaped components, thermal management products, high purity powders, precision tube and clad plate.

These high performance metal products are used around the world for critical applications in a range of industries including aerospace, automotive, defense, medical, electronics, oil and gas and nuclear.