



AMETEK®

SPECIALTY METAL PRODUCTS

POWDER • TUBE • STRIP

ADVANCED METALLURGICAL PRODUCTS

FOR CRITICAL APPLICATIONS

HPM | HAMILTON
PRECISION
METALS

AMETEK®
SPECIALTY METAL PRODUCTS
WALLINGFORD

finetubes

SuperiorTube

AMETEK®
SPECIALTY METAL PRODUCTS
EIGHTY FOUR



- MEDICAL
- ENERGY
- NUCLEAR
- INSTRUMENTATION AND MEASUREMENT
- ELECTRONICS
- AEROSPACE
- DEFENSE
- AUTOMOTIVE
- OIL AND GAS, DRILLING AND MINING
- INDUSTRIAL

AMETEK Specialty Metal Products

AMETEK Specialty Metal Products is a global leader in the production of specialty metal powders, precision tubes, precision metal strip and foils, thermal management products, shaped wire, clad metal plate and engineered shaped components.



Hamilton
Precision Metals

AMETEK
Wallingford

Fine Tubes

Superior Tube

AMETEK
Eighty Four

OUR ALLOYS

HAMILTON PRECISION METALS (Foil & Strip)

STAINLESS STEEL:	301, 302, 304, 304L, 316, 316L, 316 LS, 410, 420, 430, 17-4PH®, 17-7PH
NICKEL:	200, 201, 270, 625, Hastelloy® C276, Inconel 600, Monel® 400, MP35N®, Precision C, X-750
TITANIUM:	CP Ti (Grades 1, 2 & 4), Grade 9
SPECIALTY:	Constantan®, Evanohm®, Havar®, L-605, 715, Manganin®, Moly Permalloy®, NiCr 80/20, NiFe, Tantalum

AMETEK WALLINGFORD (Strip, Wire, Shaped Components & Thermal Management Products)

NICKEL:	200, 201, 270, NiFe 36, 42, 48, 52, NiW, NiCr alloys
TITANIUM:	Ti 6Al-4V (Grade 5), Ti 6Al-4V ELI (Grade 23)
SPECIALTY:	AM-388, CoFe, CoFeNi, Pure Cobalt, F-15 alloy, High Purity Iron, MoCu, Pfinodal® CuNiSn, WCu

FINE TUBES AND SUPERIOR TUBE (Precision Tubing)

STAINLESS STEEL:	303SE, 304, 304L, 310, 316, 316L, 316LN, 316LVM, 316TI, 317L, 321, 347, 6Mo, 904L, 15-5PH, 16-6 PH, 17-4PH®, 17-7PH, 21-6-9, 42-6, 446, FV607, Nitronic® 50, Duplex S31803, Super Duplex (S32750 and S32760)
NICKEL:	36% Ni-Fe, 42% Ni-Fe, 59, 75, 188, 200, 201, 211, 263, 29-17 (Kovar®), Monel® 400, 600, 625, 690, 718, 800-H-HT, 825, C22, C276, C902, HX, K-500, L-605, MP35N®, Waspaloy®, X750
TITANIUM:	Ti CP (Grade 1 and Grade 2), Ti 3Al-2.5V (Grade 9), Ti 6Al-4V (Grade 5), Ti 6Al-4V ELI (Grade 23), Ti A-40
ZIRCONIUM:	Zircaloy 2, Zircaloy 4

AMETEK EIGHTY FOUR (Water Atomized Powders & Clad Metals)

300 SERIES STAINLESS STEEL:	303L, 304L, 310L, 316L, 317L, 327L, HPULtra 303L, HPULtra 304L, HPULtra 316L
400 SERIES STAINLESS STEEL:	409LCb, 410L, 420, 430L, 431, 434L, 434LCb, 446L
HARDFACING & THERMAL SPRAY:	80/20 Ni/Cr, Ni/Al, Inconel® 600, Hastelloy® (C-22, C-276, X), NiCrFeSiB
SPECIALTY ALLOYS:	17-4 PH, Ni/Fe alloys, 70/30 Fe/Cr, DP-1, Inconel®, Hastelloy®, Monel®, Tribaloy®, T-400 and T-800, Stellite®, Molyperm®, Nickel 200, Ni/Cr alloys, Ni/Al alloys, T-15, D-2, M3/2, and custom Tool Steels
CLAD ALLOYS:	304L, 309, 310, 316L, 317L, 2205, 410S, C-276, 285-C, Inconel® 625, Inconel® 686, Inconel® 825, Monel® 400, Nickel 200, CuAl, SS/Al, SS/Al/SS

OTHER ALLOYS AVAILABLE ON REQUEST.

ABOUT AMETEK

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.



Hamilton Precision Metals

Precision Strip, Foil and Ultra-Thin Foil

Hamilton Precision Metals rolls metal strip and foil in a large variety of alloys to the tightest tolerances and thinnest gauges in the industry.

Thickness down to 1.5 microns (.000060")

- Titanium CP (Grades 1, 2 & 4) and alloyed (Grade 9)
- Stainless and heat resisting steels, standard & special grades (17-4PH[®], 17-7PH)
- Nickel and high Nickel alloys: Hastelloy[®] C-276, MP35N[®], Pure Nickel, Precision C
- Precision resistor alloys: Constantan[®], Evanohm[®], Manganin[®], HPM 80/20, HPM600
- Controlled expansion alloys: NiFe 36, 42, 52, Rodar[®]/Sealvar[®]
- And many others including Havar[®], L-605, Moly Permalloy[®], Tantalum

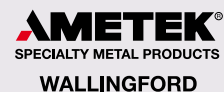


AMETEK SMP Wallingford

High Purity Strip, Shaped Wire and Materials for Bearings and Thermal Management

Located in Wallingford, Connecticut, AMETEK Specialty Metals Products is a pioneer in specialty metal products with more than 50 years of experience and numerous patents in technically advanced metallurgical materials.

- Metal strip (Nickel, Nickel Iron, Nickel Tungsten, High Purity Iron)
- Strip for Welding: Nickel Chrome, Ductile Cobalt
- AM-388, Pfinodal[®] (CuNi15Sn8) strip, bars, rods and shaped components
- Controlled expansion alloys: NiFe 36, 42, 52, Rodar[®]/Sealvar[®]
- Machine-finished parts
- Shaped wire
- Thermal management materials (Molybdenum Copper, Tungsten Copper)
- Titanium: Cold rolled Grades 5 and 23 for Medical and Aerospace applications.





Fine Tubes

Precision Engineered Metal Tubing

Fine Tubes is a leading manufacturer of high specification tubing with a reputation for creative innovations and product excellence. We work closely with our customers on solving technical challenges for the most demanding applications and industries.

- Precision metal tubing in specialty grades of Stainless Steel, Duplex Stainless Steel, Nickel and Titanium
- Seamless, welded and welded & drawn
- Round, rectangular, square, oval and elliptical profiles
- Seamless tubes from less than 1 mm (0.04") up to 45mm (1 5/8") OD
- Welded, welded & drawn tubes up to 38.1mm (1 1/2") OD
- Wall thickness from 0.25 mm (0.01 in) up to 6.35mm (0.250 in)
- Straight lengths up to 14m (45ft) and coiled tubes with orbital joints up to 10,000m (33,000 ft) long



Superior Tube

Small Diameter, Thin-wall, Precision Tubing

Superior Tube is a global leader in the manufacture of precision thin wall tubing. From aerospace to power stations, oil and gas extraction and medical devices, our products are used in a wide range of demanding applications.

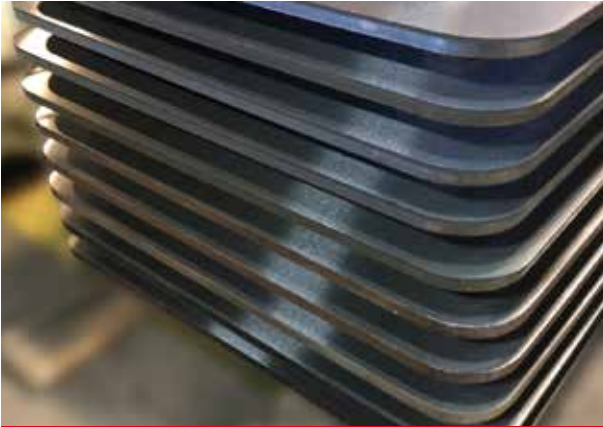
- Precision metal tubing in specialty grades of Stainless Steel, Nickel, Titanium and Zirconium
- Seamless, rolled and welded & drawn
- Profiles and cross section shapes to suit any requirement
- Both seamless and welded products come both as straight lengths or coils
- Seamless and welded drawn tubes from under 0.010" (1/4 mm) up to 1.25" (31.75mm) OD
- Finished wall thicknesses down to less than 0.002" (0.05 mm) up to 0.150" (3.8 mm)
- Straight lengths of tubing up to 45ft (14m) long and coiled tubes up to 3,200ft (975m) in length



Markets we serve

Our materials are used in a variety of applications, including automotive, aerospace, micro-electronics, appliance, oil & gas, nuclear, telecommunications, marine, medical and general industrial.





AMETEK SMP Eighty Four

Clad Metal Plate

Our high performance clad plate is produced through roll bonding dissimilar metals, combining the superior properties of each metal: strength, corrosion resistance, lightweight, cost, thermal and electrical conductivity.

- Materials: Stainless Clad Aluminum, Nickel Clad Steel, Stainless Clad Steel, Inconel Clad Steel, 276 Clad Steel, Copper Clad Steel, Titanium Clad Steel, Stainless Clad Tool Steel
- Sizes: standard widths from 120" lengths to 480" and thickness ranging from 3/16" to 1". Cladding on steel backing can be supplied in a range of thicknesses from 5 to 40% of the overall material thickness
- Applications: industrial cooktops, commercial braising pans, grills, boilers, pressure vessels, steam vessels, cryogenic transition plates, ship building transition plates, specialty knives



AMETEK SMP Eighty Four

Water Atomized Powders, and Stainless Steel Flake

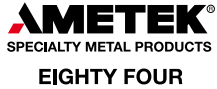
A global leader in the design, development and production of atomized, high technology metal powders. Recognized as a premier manufacturer of ultimate quality products certified to ISO 9001 status for critical applications.

- Stainless steel and HP Ultra powders for Powder Metallurgy (P/M) and Metal Injection Molding (MIM)
- Specialty alloys including Inconel®, Monel®, Hastelloy®, Fe-Cr, Fe-Al, Ni-Cr-Fe-B-Si, Ni, NiCr, NiAl, NiCrAl, Fe-Ni, Tribaloy® and more
- Tool steel powders for automotive and industrial parts
- Filter grade powders for sintered metal filters
- Polyester and nylon spinning and liquid polymer filtration powders
- Surface coating and hardfacing powders
- Plastic compounding powders and metallic additive powders
- Stainless steel flake, leaf and paste for paint and coating additives





ADVANCED METALLURGICAL PRODUCTS FOR CRITICAL APPLICATIONS

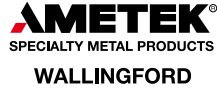


AMETEK SPECIALTY METAL PRODUCTS

1085 Route 519
Eighty Four, PA 15330
UNITED STATES

E: ef.sales@ametek.com
T: +1 724-225-8400
F: +1 724-225-6622

www.powderclad.com



AMETEK SPECIALTY METAL PRODUCTS

21 Toelles Road
Wallingford, CT 06492
UNITED STATES

E: wfd.sales@ametek.com
T: +1 610-489-5260
F: +1 610-489-5252

www.ametek-ct.com



HAMILTON PRECISION METALS

1780 Rohrerstown Road
Lancaster, PA 17601-2334
UNITED STATES

E: hpm.sales@ametek.com
T: +1 610-489-5260
F: +1 610-489-5252

www.hpmetals.com



FINE TUBES

Plymbridge Road
Plymouth
PL6 7LG
UNITED KINGDOM

E: sales.finetubes@ametek.com
T: +44 (0) 1752 876416
F: +44 (0) 1752 733301

www.finetubes.com



SUPERIOR TUBE

3900 Germantown Pike
Collegeville, PA 19426-3112
UNITED STATES

E: sales.superiortube@ametek.com
T: +1 610-489-5200
F: +1 610-489-5252

www.superiortube.com



www.ametekmetals.com

Email: smp.connect@ametek.com | Tel: +1 610.489.5260