



SPECIALTY SHAPED WIRE

SQUARE | ROUND | FLAT | CUSTOM | STRANDED | BUNCHEDED

We manufacture high tolerance custom shaped wire and flat wire products in a wide range of standard and custom shapes.

- **WE OFFER A VARIETY OF ALLOYS**

Aluminum, copper, copper alloys, nickel, nickel alloys, stainless steel and custom engineered alloys.




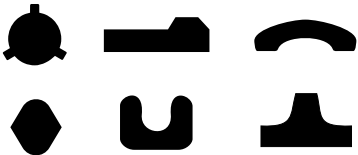
- **IN SHAPES AND SIZES**

Round, square, rectangular, half-round, hex, flat-wire, bunched, and custom shapes. From rod size to fine wire size.

- **WITH VARIOUS PACKAGING OPTIONS**

Reels, spools, barrels, hex pails, coils, cut-to-length, bundles and layer level wound reels.

SIZE CAPABILITIES

		Size	Tolerance
Square		0.010" to 0.200"	+/- 0.0002" to +/- 0.002"
Round		0.004" to 0.250"	+/- 0.00025" to +/- 0.0015"
Flat		0.008" x 0.018"	+/- 0.001" to +/- 0.0035"
Based on ratio of gauge to width			
Custom Shapes			





TEMPER CAPABILITIES

Annealed to Extra Spring Tempers.

STRANDING AND BUNCHING CAPABILITIES

Size of Strands	0.005" to 0.062"
Number of Strands	7 strands to 65 strands

EDGE CAPABILITIES

Square Edges Flat side with very minimum radius at the corners.	
Rounded Corners Flat side with a larger radius on the corners.	
Natural Rolled or Round Edges No flat on side. Slightly sharp corner where arc meets flats.	
Full Rounded or Blended Edges No flat on side. Arc blends into flats, eliminating sharp corners.	

PACKAGING CAPABILITIES

Spools	3 to 30 pounds
Reels	50 to 1,000 pounds
Coils	30 to 200 pounds
Barrels	175 to 500 pounds
Hex Pails	15 pounds
Straight Lengths	6 inches to 12 feet

ALLOY CAPABILITIES

Family	Alloys	
Copper	Copper	Nickel Silver
	Bronze	Leaded Brass
	Brass	Copper-Nickel-Tin
	Phosphorus Bronze	Copper-Nickel-Indium
	Silicon Bronze	
Aluminum	1000 to 7000 Series	
Stainless Steel	300 Series	A-286
	400 Series	17-4 PH®
Resistance Alloys	30-ohm	60-ohm
	90-ohm	180-ohm
Nickel Alloys	200, 201, 205	Monel®
	211, 233	Inconel®
	270	Incoloy®
Nickel-Iron Alloys	Kovar® (F-15)	52 alloy
	Invar® 36 alloy	48 alloy
	42 alloy	46 alloy
	<i>Alloys for glass to metal sealing applications.</i>	
Carbon Steel	G10060 to G10600	
Other Alloys	Nickel, Iron, Cobalt alloys produced via powder metallurgy process and other alloys based upon availability.	

We manufacture high tolerance custom shaped wire and flat wire products in a wide range of standard shapes including round, square, flat and bunched in addition to custom shapes. The range of alloys available is nearly endless with choices from our own high purity wrought powder metallurgy alloys (Nickel wire, Pfinodal® wire and Nickel Irons) as well as materials from nearly any wire or rod producer on the planet.

METALLURGICAL EXPERTISE

We utilise a variety of forming technologies: drawing, rolling, and shaping. We provide in-house tooling capabilities and offer experienced engineering support. We consistently work to tight tolerances in the fabrication of simple and complex shapes for superior dimensional control.

MAJOR ADVANTAGES

Our expertise in the technology of wrought powder metallurgy enables us to manufacture Nickel and custom alloy wire with proven advantages: purity, consistency and close compositional control. These advantages give our customers improved die wear, formability, and platability.

ULTIMATE QUALITY

Our quality system is certified to ISO 9001 and we constantly upgrade our processes, equipment, and operator training to produce high-quality wire products. TQM and statistical methodologies are incorporated into our manufacturing process to provide products that will consistently meet your critical specifications.

WIRE FOR LIDS AND LEADS



CHANNEL WIRE FOR MRI SUPERCONDUCTORS



WIRE FOR NEAR NET SHAPE ORTHODONTIC BRACKETS



LOCK COLLAR TAPE FOR AEROSPACE RIVETS



TOOTHBRUSH STAPLES FOR MEDICAL



POST AND HOOKS FOR JEWELRY



BRAID WIRE FOR BRAIDED CABLES



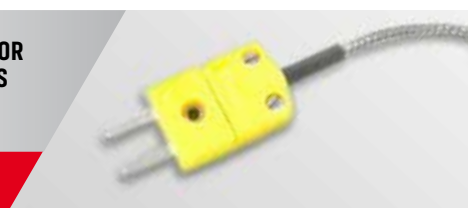
CORE WIRE FOR TIRE VALVE STEMS



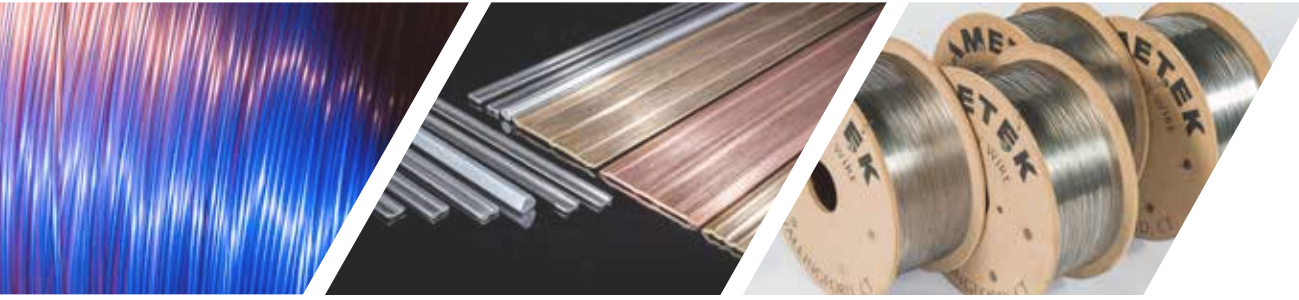
AERO PUSH PULL CONTROLS



BUNCHED WIRE FOR THERMO COUPLES



SPECIALTY SHAPED WIRE



ABOUT AMETEK SPECIALTY METAL PRODUCTS

AMETEK Specialty Metal Products (SMP) is a business unit of AMETEK, Inc. a leading global manufacturer of electronic instruments and electromechanical devices with annualized sales of approximately \$5.5 billion.

The Specialty Metal Products business unit consists of five businesses and operating facilities in the United States and the United Kingdom.

These businesses are proven experts in the manufacture of advanced metallurgical products including roll bonded clad plate, precision metal strip, ultra-thin foil, shaped wire, engineered components, thermal management materials, water atomized powders and precision tube.

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

WALLINGFORD / **AMETEK**
SPECIALTY METAL PRODUCTS

21 Toelles Road, Wallingford, CT 06492, United States
E: wfd.sales@ametek.com | T: (+1) 610.489.5260

www.ametek-ct.com

Scan for more
information



ISO 9001
CERTIFIED

The data herein is subject to revision without notice. Since AMETEK products, the information given and recommendations made herein may be used under conditions beyond our control, AMETEK makes no guarantee, either expressed or implied, concerning the suitability of our products, or the applicability and accuracy of the information or recommendations, in any specific situation. User is solely responsible for determining the suitability of AMETEK products for any specific purpose.