

Customized Metal Wire. Optimized Metal Performance.

*The power of clad-metal wire composites for
electronic and medical device applications.*

Choosing metal wire that meets the exacting requirements of your unique design challenges is critical to the success of your electronic or medical device applications. Faced with intense time-to-market, quality-control and cost-related pressures, you need to work with a manufacturer that has a lengthy history of providing proven, performance-driven solutions through innovative technologies and processes. And that's why you need to partner with Anomet Products.



In a class by itself.

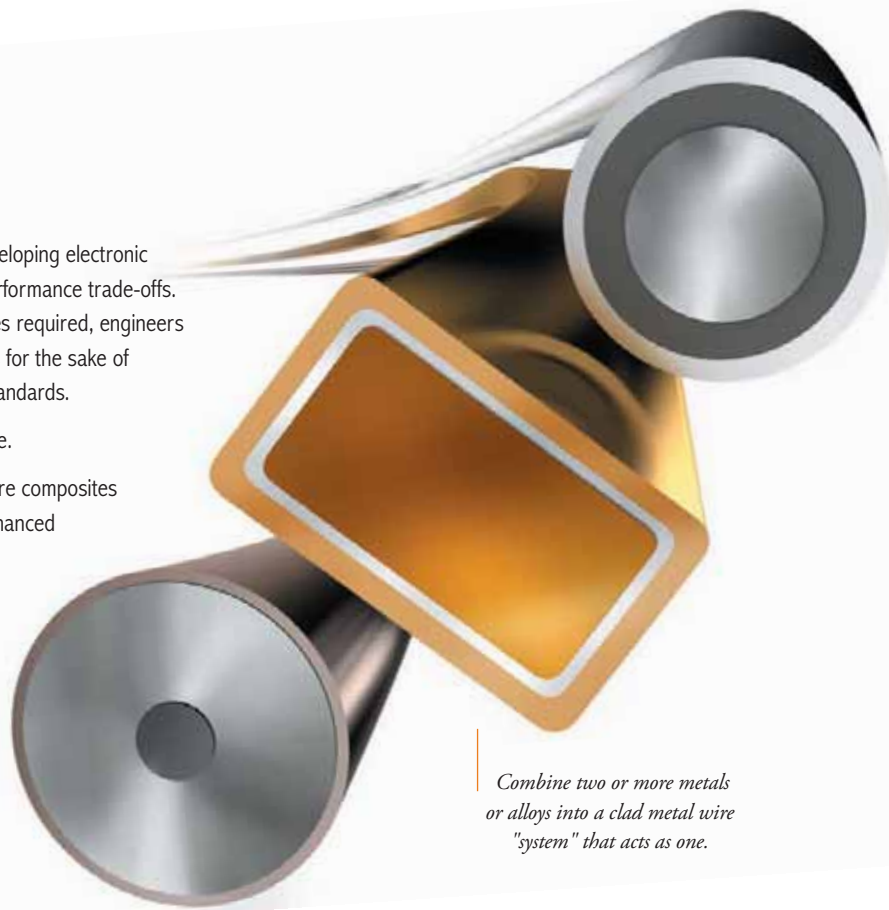
*Higher quality than electroplated wire.
Lower cost than precious-metal solid wire.*

When it comes to metal wire, the design specification process for developing electronic and medical device applications has all too often required making performance trade-offs. Specifically, in trying to find the perfect alloy that has all the properties required, engineers have typically been forced to sacrifice certain attributes or properties for the sake of others — resulting in compromised design and application quality standards.

Fortunately, that's not the case with Anomet Products' clad-metal wire.

Manufactured by bonding two or more metals or alloys, clad-metal wire composites can combine the properties of several different materials — plus enhanced reliability, ductility and formability — at lower cost.

Of course, every engineer has a unique set of performance requirements, representing unique combinations of properties and attributes. That's why Anomet Products works closely with you to develop material "systems" that not only possess those desired characteristics, but do so in greater degrees than the individual metals or alloys.



*Combine two or more metals
or alloys into a clad metal wire
"system" that acts as one.*

Anomet Products provides
clad-metal wire composites to
meet your specific requirements:

- High strength
- High conductivity
- Biocompatibility
- Radiopacity
- Corrosion resistance
- Wear resistance
- Contact resistance
- Shape memory
- Ductility/formability
- Cost effectiveness

A sum that's greater than its parts.

Combining individual metals and alloys — to yield a superior wire system.

A recognized pioneer in the industry, Anomet Products is committed to utilizing the most advanced metallurgical technologies and manufacturing processes to provide the highest quality clad-metal wire composites for high-reliability applications. In addition to continuously improving material properties and quality, however, we simultaneously strive to curtail skyrocketing material costs — which today can represent as much as 90 percent of overall product costs.

We employ a variety of heat, pressure and reduction cladding techniques — such as co-extrusion and co-drawn rod and tube — to combine two or more metals or alloys. The result is a complete metallurgical bond within one material system. Significantly, these wire composite systems offer improved properties versus those provided by the individual metals themselves... including everything from greater tensile strength and conductivity to higher corrosion- and wear-resistance.

What's more, since our clad-metal wire acts as one system, it is highly flexible and formable material that will not break, flake or blister when bent or twisted.

Perhaps most important, our manufacturing process is specifically designed to accommodate your specifications. In essence, our extensive availability of metal/alloy compositions, forms and layers — plus our unique capability to offer virtually any ratio or thickness — means we can precisely meet customers' material-property and material-cost requirements... and provide an almost unlimited array of metal wire solutions.

Solutions designed with you in mind.

Customized solutions—to meet your unique challenges.

Although most wire manufacturers largely provide “common-denominator,” off-the-shelf products, Anomet Products focuses primarily on developing customized wire solutions. We operate as a true consultant to our customers; in fact, many of the world’s leading electronic and medical device OEMs consider us an extension of their wire design teams. This partnership-based orientation allows us to develop an in-depth understanding of our customers’ key challenges and specification requirements... and thereby enables us to deliver ideally suited solutions through highly customized clad-metal wire designs.

For example, our engineers can customize numerous metal and alloy properties to provide the “correct” balance of attributes and characteristics for your applications, including:

- Tensile strength
- Temper (annealed to full hard)
- Cladding thickness
- Cladding layer quantity (a minimum of core plus one outer layer, up to a maximum of five individual layers)
- Corrosion resistance/biocompatibility
- Long continuous-length wire (lengths of over 100,000 feet are available)
- Fine grain-size materials

Sample medical device applications include wires used in:

- Cardiac rhythm management devices (e.g., pacemakers, implantable cardioverter defibrillators)
- Neuromodulation devices
- Sensing equipment (e.g., continuous monitoring systems)

Sample electronic applications include wires used in:

- Micro-switches
- Connectors
- Hermetic devices

Anomet Products’ clad-metal wire can be designed by using any combination of the metals and alloys below — or by using alternative materials in accordance with customer specifications.

TYPICAL METALS AND ALLOYS

CLADDING	CORE
Gold (Au)	316LVM
Nickel (Ni)	Copper (Cu)
Palladium (Pd)	MP35N®
Platinum (Pt)	Molybdenum (Mo)
Platinum Iridium (Pt/Ir)	Niobium (Nb)
Silver (Ag)	Nitinol®
Tantalum (Ta)	Tantalum (Ta)
Customer Specified Alloys	Tantalum Tungsten (Ta/W) Titanium (Ti) Customer Specified Alloys

TYPICAL FORMS AND LAYERS AVAILABLE

FORMS	Flat wire, round wire, ribbon wire, rods, bars, plates
LAYERS	Bi-clad, tri-clad, multi-clad

Leading the way... with a focused technology.

The only manufacturer to specialize in clad-metal wire.

In terms of clad-metal wire technologies and manufacturing processes, no company can match Anomet Products’ experience and capabilities. That’s because we’ve worked with clad-metal composites since our founding in 1976 — and we remain today the industry’s only clad-metal wire specialist.

It’s not surprising, therefore, that electronic and medical device OEMs developing high-reliability applications — critical applications requiring the utmost in performance, precision and durability — so often choose to partner with us.

Discover how we can help you too by providing cost-effective, customized clad-metal wire of the highest quality.



A diversity of industries and applications.

For over 35 years, Anomet Products has focused exclusively on manufacturing innovative clad-metal wire composite solutions that deliver optimized performance for the most demanding applications. Our goal has always been to provide superior material quality, product value and customer satisfaction through service and support that far exceed expectations. We're proud

that this unwavering commitment has fostered strong, collaborative partnerships with leading OEMs across an extremely diverse range of business sectors, including aerospace & defense, automotive, oil & gas, appliances, industrial, electronic, superconductors, medical devices and electrochemical.



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