



The newsletter of HEYCO Metals

METALNews

Heyco Metals Copper Alloys: This Large Family Just Keeps Growing.

Three new offerings just added: C15100, C19210 and C19700.

As a leading manufacturer of precision rolled stainless steel, copper and copper alloys, Heyco Metals has announced the availability of three new products to serve a variety of demanding applications.

These include a copper-zirconium alloy, a copper-iron and phosphorus alloy, and a high copper alloy. The additions illustrate the Reading, PA company's long-standing commitment to being responsive to customer needs.

These products – C15100, C19210 and C19700 – now join Heyco Metals' other stainless steel, copper and copper alloys, to serve a diversity of markets, including the automotive, electronics and architectural industries.

Exceptional performance? Copper-Zirconium has it all.

C15100 is a Copper-Zirconium ASTM-B747 alloy used specifically for the automotive and electrical engineering industry. It has the ability to harden by cold work, or by thermal treatment and precipitation of CuZr. **Applications include:** automotive switches and relays, electrical contacts, terminals, electronic lead frames, connectors, commutators, circuit breaker components, switchgear, soldering and welding tips.

C15100 FEATURES:

- Excellent solderability and formability
- Strong welding and brazing properties
- Moderate to high strength
- Good corrosion resistance
- High electrical and thermal conductivity: 95% IACS (annealed)
- Stress relaxation resistance – retains 70% of the initial stress up to 150°C

Need versatility? Try Copper-Iron-Phosphorus alloy product.

C19210 is a copper alloy with a dilute addition of iron and phosphorus. It conforms to ASTM-B465 standards, brings versatility to automotive, electronics and other applications, and is appropriate for use in both air and ocean environments.

Applications include: Cable wraps, circuit breaker components, contact springs, electrical connectors and terminals, eyelets, flexible hoses, fuse clips, gaskets, heat sinks, automotive terminals, lead frames for QFP, QFN semiconductor packages, LEDs, radiator and heat exchanger fins.

C19210 FEATURES:

- Excellent electrical and thermal conductivity
- Resistant to softening and corrosion
- Softening temperature is above 400°C/750°F (higher than C14415)
- Higher strength than C11000 and C14415
- Easily formable
- Good solderability and platability
- Immune to stress corrosion cracking
- Superior resistance to aqueous erosion corrosion and pitting
- Hardened by Fe₂P precipitates in the copper matrix

Looking to balance conductivity and strength? Check out this copper alloy.

C19700 is a dispersion-strengthened copper alloy. Conforming to ASTM-B465, it offers an excellent combination of high electrical conductivity and moderate strength. **Applications include:** Automotive switches and relays, junction box frets, electrical contacts, terminals, electronic lead frames, connectors, commutators, fuse clips, circuit breaker components and switchgear.

C19700 FEATURES:

- High Electrical Conductivity: 80% IACS
- Moderate Strength
- Withstands high contact forces
- Corrosion Resistance
- Stress Relaxation Resistance
- Easy Solderability

The Heyco Metals product line is constantly evolving to serve you better. Check out our full line of stainless steel, copper and copper alloys online at www.heycometals.com, or call us at 800.57-HEYCO today.



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