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AMETEK C110 GRADE PFINODAL MATERIAL NOW AVAILABLE WITH ENHANCED STRENGTH AND DUCTILITY PROPERTIES

Patented Process Technology Results in Superior Performance and Makes It Suitable a Replacement for Beryllium Copper

WALLINGFORD, CT – The unique combination of strength, formability, non-sparking and anti-galling characteristics of AMETEK's Pfinodal® alloy make it an excellent choice for a wide range of applications, especially as a suitable replacement for beryllium copper components. The beryllium-free material is now available with enhanced mechanical properties offering improved strength and ductility. AMETEK's Pfinodal alloy, which consist of copper, nickel (15%) and tin (8%), is made using a proprietary powder metallurgy technology. AMETEK's patented process produces a homogeneous single-phase structure that achieves excellent uniformity, formability and strength and ensures optimum reproducible properties.

AMETEK's patented Pneumatic Isostatic Forging (PIF) process uses high-pressure gas to close porosity while improving the material's microstructure. Now, with the addition of metal working capabilities, the ductility of the material is further enhanced without compromising its strength. This results in fully dense material far superior to that achieved using conventional casting methods.

The AMETEK Pfinodal alloy has low permeability, excellent lubricity, machinability and anti-seizing characteristics. The C110 grade is now available in a variety of forms, including rod/bar up to 3" diameter by 36" lengths, plate and as custom engineered shapes and finished parts.

AMETEK Specialty Metals Products (SMP) is a world leader in metal powders, high purity strip, ultra thin metal foil, specialty wire, metal matrix composites, engineered shaped components and clad metal products with numerous patents in technically advanced metallurgical materials.

AMETEK SMP manufactures or consolidates a variety of metal alloys including stainless steels, nickel-based alloys, cobalt-based alloys, titanium and titanium alloys and master alloys. For over 50 years, it has developed innovative, proprietary products tailored to specific customer applications.

AMETEK, Inc. is a leading global manufacturer of electronic instruments and electromechanical products with annual sales of \$3.0 billion. For more

information on Pfinodal alloys, contact AMETEK Specialty Metal Products,
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