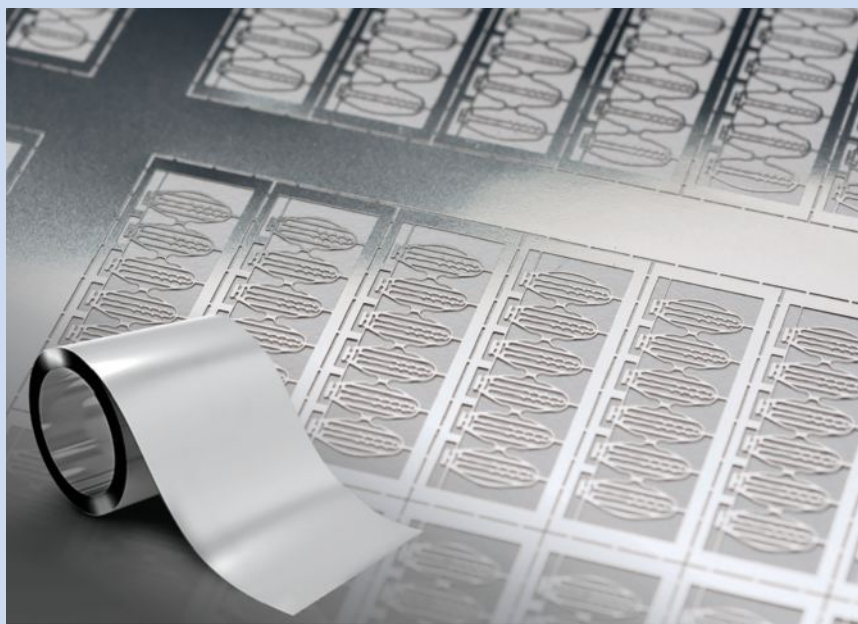


## Thin-Rolled Titanium Foils and Alloys for Various Applications



Arnold Magnetic Technologies Corporation (Rochester, New York, USA)—a leading global manufacturer of high-performance magnets, magnetic assemblies, precision thin metals, and highly loaded composites—announced its range of titanium foil and alloys. Arnold offers thin cold-rolled titanium in a variety of Commercially Pure (CP) grades and alloys, as well as an exceptionally broad range of thicknesses and widths for many applications that require a strong, lightweight, corrosion-resistant, biocompatible material that is highly workable, ductile, and weldable. Arnold offers an Ultra Thin Gauge foil, which is available in thickness down to 2  $\mu\text{m}$  (0.00008 in), along with Thin Gauge options. Widths are available up to 444,500  $\mu\text{m}$  (17.5 in), depending on thickness, and Arnold offers multiple CP grades with more than 99% pure titanium. Options include Grade 1, which has the highest purity of commercially available titanium with excellent corrosion resistance to chlorides; Grade 2, the most commonly specified grade of CP titanium, which has good ductility with excellent corrosion resistance, especially to seawater; and Grade 4, which is the strongest CP grade and is certified per Aerospace Material Specifications (AMS) standards. Available titanium alloys include Grade 9, 15-3-3-3, Grade 23, and Beta21s, a high-strength material engineered specifically to improve resistance to oxidation and creep, along with enhanced elevated temperature strength and stability. Tel: +1 815-568-2000, web site: [www.arnoldmagnetics.com](http://www.arnoldmagnetics.com).

## New Corrosion Inhibitor for Hydrotesting Drinking Water Systems



Cortec Corp. (St. Paul, Minnesota, USA) announced that VpCI-649 HP, its newest corrosion inhibitor for hydrostatic testing, was certified to meet American National Standards Institute (ANSI)/National Science Foundation (NSF) Standard 61 for use in hydrotesting of drinking water components, when used as a surface treatment at concentrations up to 3% and drained. VpCI-649 HP is a specially concentrated liquid formulation that contains contact and vapor phase corrosion inhibitors (VpCIs), along with a hard water stabilizer and an organic dispersing agent. It protects against corrosion at doses as low as 0.3% by weight. It also has an extremely low chloride impact—less than 0.6  $\mu\text{m}$  at 0.3% dosage—for use in systems with tight chloride restrictions. As VpCI-649 HP circulates throughout the system, it leaves behind a protective molecular layer on all metal surfaces. After the treated water has been drained, residual protection continues on components made of steel, copper, galvanized steel, or aluminum. In the past, many industries used standard VpCI-649 to protect vessels, piping, and tanks during the sensitive hydrotesting phase. This use, however, was limited to equipment that would not be exposed to drinking water. With the development of VpCI-649 HP and its certification to meet ANSI/NSF Standard 61, the opportunities for corrosion protection during hydrotesting have expanded, carrying implications for use in the dry layup of closed loops and cooling water systems, fresh water or glycol coolants, and fire-extinguishing systems. Tel: 1 800-426-7832, web site: [www.cortecvci.com](http://www.cortecvci.com).