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This specification covers nickel-chromium-iron alloys (UNS N06600, N06601, N06603, N06690, N06693, N06025, N06045, and N06696) and nickel-chromium-cobalt molybdenum alloy (UNS N06617) in cold-worked annealed, hot-worked annealed, and hot-finished seamless pipe and tube intended for general corrosion resistant and heat resistant applications. The material shall conform to the required chemical composition for nickel, chromium, iron, manganese, molybdenum, cobalt, aluminum, carbon, copper, boron, silicon, sulfur, titanium, niobium, phosphorous, zirconium, yttrium, and cerium. The following test methods shall be performed on the alloys, namely: chemical analysis, tension test, and hydrostatic or nondestructive electric test. The material shall conform to the required mechanical properties such as tensile strength, yield strength, elongation, nondestructive electric test, and rounding method.

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1. Scope

1.1 This specification covers nickel-chromium-iron alloys (UNS N06600, N06601, N06603, N06690, N06693, N06025, N06045, and N06696), nickel-chromium-cobalt-molybdenum alloy (UNS N06617), and nickel-iron-chromium-tungsten alloy (UNS N06674), in cold-worked annealed, hot-worked annealed, and hot-finished seamless pipe and tube intended for general corrosion resistant and heat resistant applications.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.
1.3 The following safety hazards caveat pertains only to the test methods portion, Section 13, of this specification: This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to become familiar with all hazards including those identified in the appropriate Safety Data Sheet (SDS) for this product/material as provided by the manufacturer, to establish appropriate safety and health practices, and determine the applicability of regulatory limitations prior to use.

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