

HASTELLOY[®] G-30[®] alloy

Principal Features

30 years of proven performance in “wet process” phosphoric acid

HASTELLOY[®] G-30[®] alloy (UNS N06030) is a nickel-chromium-iron material highly resistant to “wet process” phosphoric acid (P₂O₅). P₂O₅ is one of the most important industrial chemicals, being the primary source of phosphorus for agricultural fertilizers. G-30[®] alloy is also moderately resistant to chloride-induced localized attack, which can be a problem beneath deposits in the evaporators used to concentrate P₂O₅. Furthermore, G-30[®] alloy is less susceptible to chloride-induced stress corrosion cracking than the stainless steels.

As a result of its high chromium content, G-30[®] alloy is also very resistant to other oxidizing acids, such as nitric, and mixtures containing nitric acid. It possesses moderate resistance to reducing acids, such as hydrochloric and sulfuric, as a result of its appreciable molybdenum and copper contents.

HASTELLOY[®] G-30[®] alloy is available in the form of plates, sheets, strips, billets, bars, wires, pipes, tubes, and covered electrodes. Applications include P₂O₅ evaporator tubes and nitric acid-based, metal pickling hardware.
