

HAYNES[®] 25 alloy

Principal Features

Excellent High-Temperature Strength and Good Oxidation Resistance

HAYNES[®] 25 alloy (UNS R30605) is a cobalt-nickel- chromium-tungsten alloy that combines excellent high-temperature strength with good resistance to oxidizing environments up to 1800°F (980°C) for prolonged exposures, and excellent resistance to sulfidation. It can be fabricated and formed by conventional techniques, and has been used for cast components. Other attractive features include excellent resistance to metal galling.

Applications

HAYNES[®] 25 alloy combines properties which make it suitable for a number of component applications in the aerospace industry, including parts in established military and commercial gas turbine engines. In modern engines, it has largely been replaced by newer materials such as HAYNES[®] 188 alloy, and, most recently, 230[®] alloy, which possess improved properties. Another area of significant usage for 25 alloy is as a bearing material, for both balls and races.