



Grade	Code	UNS	Nickel Alloys
Inconel X-750	Alloy X-750 (2.4669)	N07750	

Nickel Alloy Properties

Alloy X 750 is a nickel chromium alloy similar to Alloy 600 but made precipitation hardenable by additions of aluminum and titanium. It has good resistance to corrosion and oxidation along with high tensile and creep-rupture properties at temperatures to 704°C (1300°F).

Chemical Composition (Inconel X-750)

Ni %	Cr %	Nb+Ta %	Co %	Mn %	Si %	Al %	Ti %	Cu %	Fe %
70,00 min.	14,00 – 17,00	0,70 – 1,20	1,00 max.	1,00 max.	0,50 max.	0,40 – 1,00	2,25 – 2,75	0,50 max.	5,00 – 9,00

Suitable For

Its excellent relaxation resistance is useful for high temperature springs and bolts. Used in gas turbines, rocket engines, nuclear reactors, pressure vessels, tooling, and aircraft structures.

Remarks

An interesting feature of this alloy, Inconel X-750 is its high resistance to chloride-ion stress-corrosion cracking even in the fully precipitation-hardened condition.

Specification

Inconel X-750, Alloy X-750, 2.4669, N07750.

Norm

Rod, Bar and Forging - ASTM B 637/ASME SB 637; ISO 9723-9725; SAE AMS 5667-5671 and 5747; EN 10269.