

Inconel X750(UNS N07750)

Specifications

Item	Chemical Composition (%)					
Inconel X-750	Ni	Cr	Fe	Nb+Ta	Co	Si
	≥70.0	14.0-17.0	5.0-9.0	0.7-1.2	≤1.0	≤0.5
	S	Cu	Al	C	Mn	Ti
	≤0.01	≤0.5	0.4-1.0	≤0.08	≤1.0	2.25-2.75
	Standard					
	Sheet/Plate	Round bar/Wire		Pipe	Tube	
AMS 5542 AMS 5598	ASME SB-637 AMS 5667 AMS 5668 AMS 5670 AMS 5671 AMS 5747 AMS 5698 AMS 5699		AMS 5582 AMS 5583	AMS 5582 AMS 5583		

Properties

Inconel X750(UNS N07750) is a nickel chromium alloy similar to Alloy 600 but made precipitation hardenable by additions of aluminum and titanium.

Inconel X750(UNS N07750) has good resistance to corrosion and oxidation along with high tensile and creep-rupture properties at temperatures to 1300°F.

Its excellent relaxation resistance is useful for high temperature springs and bolts.

Application

Inconel X750(UNS N07750) is used in gas turbines, rocket engines, nuclear reactors, pressure vessels, tooling, and aircraft structures.