

Inconel X-750 has good resistance to corrosion and oxidation along with high tensile and creep-rupture properties at temperatures to about 1300°F (700°C). Alloy X-750 is used in applications such as gas turbines, jet engine parts, heat-treating fixtures, forming tools, and extrusion dies.

Inconel X-750 Specification

Grade	UNS	W.Nr
Alloy X-750	N07750	2.4669

Inconel X-750 Chemical Composition

Grade	%	Ni	Cr	Fe	Nb	Co	C	Mn	Si	S	Cu	Al	Ti	P
Alloy X-750	Min	Bal.	14	5.0	0.7							0.4	2.25	
	Max		17	9.0	1.2	1.00	0.08	1.00	0.50	0.01	0.5	1.0	2.75	0.02

Inconel X-750 Mechanical properties: (Minimum value at 20°C)

Tensile Strength σ_b /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation σ_5 /%
≥ 910	≥ 550	≥ 25

Inconel X-750 Standard

Bar/Rod	Forging	Sheet/Strip	Wire
ASTM B637	ASTM B637	AMS 5542	AMS 5698
		AMS 5598	AMS 5699

Inconel X-750 Size Range

- Wire: Dia 0.08-12mm
- Bar: Dia 1.0-300mm
- Strip(Coil): 0.2-20mm TCK x 10-300mm W
- Sheet: min.0.7mm TCK x 1200mm W max.
- Tube & Forging & Machine Parts: customized
- Welding wire: 0.8mm, 1.0mm, 1.2mm, 2.0mm, 2.4mm, 3.2mm, 3.8mm, 4.0mm etc
- Welding Strip: 0.4-0.7mm TCK x 25-60mm W