

## INCONEL ALLOY X-750

# NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

INCONEL ALLOY X-750 are similar to INCONEL alloy 600 but made precipitation-hard enable by additions of aluminium and titanium. It has good resistance to corrosion and oxidation along with high tensile and creep-rupture properties at temperatures to 1300°F (700°C). 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

### Chemical Properties

C	Mn	S	Si	Cr	Ni	Cu	Ti	Al	Fe	Co	Cb+Ta
0.08 Max	1.00 Max	0.010 Max	0.50 Max	14.0-17.0	70.00 Min	0.50 Max	2.25-2.75	0.40-1.00	5.0-9.0	1.00 Max	0.70-1.20

### Mechanical Properties

Yield strength	Tensile strength	Elongation	Hardness
Min 0.2% Mpa	Min Mpa	Min %	BHN Min
620	695	8	331

### Solution Annealed @ 1177°C & R

Solution Treated @1010°

### Equivalent Designation

UNS N07750  
En Name NiCr15Fe7TiAl  
W.Nr. 2.4669  
AFNOR NC15TNbA

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