

INCONEL ALLOY 690

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

INCONEL 690 covers nickel alloy forgings. These alloys are classified into different grades according to their chemical composition. Inconel 690 covers Ni-Cr-Fe alloy UNS N06690. Inconel Alloy 690 is a high chromium nickel alloy having excellent resistance to many corrosive aqueous media and high temperature atmosphere. In addition to its corrosion resistance, alloy 690 has high strength, good metallurgical stability and favourable fabrication characteristics. The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

Chemical Properties

C	Mn	S	Si	Cr	Ni	Cu	Fe
0.05 Max	0.5 Max	0.015 Max	0.5 Max	27.0-31.0	58.0 Min	0.5 Max	7.0-11.0

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
241	586	30

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N06690
En Name NiCr29Fe
W.Nr. 2.4642
AFNOR NC30

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