

INCONEL ALLOY 110

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

INCONEL 110 covers nickel alloy forgings. These alloys are classified into different grades according to their chemical composition. A chemical analysis shall be employed on each alloy in order to determine its chemical composition. Grain size and mechanical properties like tensile strength, yield strength, and elongation shall be measured. A tension test and nondestructive ultrasonic test shall be done on each specimen. Inconel 110 Alloy covers Ni-Cr-Mo-W alloy UNS N06110. 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	P	S	Si	Cr	Mo
0.15 Max	1.0 Max	0.50 Max	0.015 Max	1.0 Max	28.0-33.0	9.0-12.0

Ni	Cu	Ti	Al	W	Fe	Cb+Ta
51.0 Min	0.50 Max	1.0 Max	1.0 Max	1.0-4.0	1.0 Max	1.0 Max

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
310	655	60

Solution Annealed @ 1177°C & F

Solution Annealed @ 1080°C & Liquid Quenched

Equivalent Designation

UNS N06110

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