

## INCONEL ALLOY 219

# NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

INCONEL 219 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 219 Alloy covers UNS N06219. 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	Cu	Ti
0.05 Max	0.50 Max	0.020 Max	0.010 Max	0.70-1.10	18.0-22.0	7.0-9.0	0.50 Max	0.50 Max

Al	Co	Fe	Ni
0.50 Max	1.0 Max	2.0-4.0	BALANCE

### Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
270	660	50

### Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

### Equivalent Designation

UNS N06219

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