

## INCONEL ALLOY 603

# NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

INCONEL 603 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 603 Alloy covers Ni-Cr-Fe alloy UNS N06603. 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	Cu	Ti	Al	Fe	Zr	Y
0.20-0.40	0.15 Max	0.02 Max	0.010 Max	0.5 Max	24.0-26.0	0.5 Max	0.01-0.25	2.4-3.0	8.0-11.0	0.01-0.10	0.01-0.15

### Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
172	448	30

### Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

### Equivalent Designation

UNS N06603  
En Name NiCr25FeAlYC  
W.Nr. 2.4647

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