

INCONEL ALLOY 58

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

INCONEL 58 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 58 Alloy covers UNS N06058. 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
0.010 Max	0.50 Max	0.015 Max	0.010 Max	0.10 Max	20.0-23.0	19.0-21.0

Cu	N	Al	W	Co	Fe	Ni
0.50 Max	0.02-0.15	0.40 Max	0.3 Max	0.3 Max	1.5 Max	BALANCE

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
360	760	40

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N06058

CUSTOMER ASSISTANCE : customer@TorqBolt.com

#4/217, Deccan Bank Bldg,
R. R. Roy Road, Mumbai – 400 004,
Maharashtra, INDIA

Email: info@TorqBolt.com
Web: www.TorqBolt.com

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