TorqBolt Inc.

MATERIAL GRADE DATA SHEET

INCONEL ALLOY 6035

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

INCONEL 6035 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 6035 Alloy covers UNS N06035. 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
0.050 Max	0.50 Max	0.030 Max	0.015 Max	0.60 Max	32.25-34.25	7.60-9.00

Cu	V	Al	W	Co	Fe	Ni
0.30 Max	0.20 Max	0.40 Max	0.60 Max	1.00 Max	2.00 Max	BALANCE

Mechanical Properties

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

Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat	Electrical Resistivity
(Kg/m^3)	(Gpa)	Expansion(µm/m/°C)			(W/m.K)		0-100°C	(nΩ.m)
8.22	204	12.3	13.4	14.1	10	16	450	1.18

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N06035
En Name NiCr33Mo8
W.Nr. 2.4643

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