TorqBolt Inc.

MATERIAL GRADE DATA SHEET

INCONEL ALLOY 625

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

Inconel Alloy 625 Is A nickel-chromium-molybdenum alloy with an addition of niobium that acts with the molybdenum to stiffen the alloy's matrix and thereby provide high strength without a strengthening heat treatment. The alloy resists a wide range of severely corrosive environments and is especially resistant to pitting and crevice corrosion. Used in chemical processing, aerospace and marine engineering, pollution-control equipment, and nuclear reactors

Chemical Properties

C	Mn	P	S	Si	Cr	Mo	Ni	Ti	Al	Fe	Cb+Ta
0.10 Max	0.5 Max	0.015 Max	0.015 Max	0.5 Max	20.0-23.0	8.0-10.0	58.0 Min	0.4 Max	0.4 Max	5.0 Max	3.15-4.15

Mechanical Properties

Yeild strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
414	827	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)
8.44	205.8	13.5	13.4	17.3	11.4	21.3	446	1.27

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N06625
En Name NiCr22Mo9Nb
W.Nr. 2.4856
BS NA21
AFNOR NC22FeDNb

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