

INCONEL ALLOY 625

NICKEL ALLOY

GRADE 1

HIGH TEMPERATURE RESISTING ALLOY

INCONEL ALLOY 625 is 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	Al	Co	Fe	Cb+Ta
0.10 Max	0.50 Max	0.02 Max	0.02 Max	0.50 Max	20.0-23.0	8.0-10.0	58.00 Min	0.40 Max	1.00 Max	5.00 Max	3.15-4.15

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
415	725	30

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N06625
En Name NiCr22Mo9Nb
W.Nr. 2.4856
AFNOR NC22FeDNb
BS NA 21

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