

IN625

NICKEL SUPERALLOY

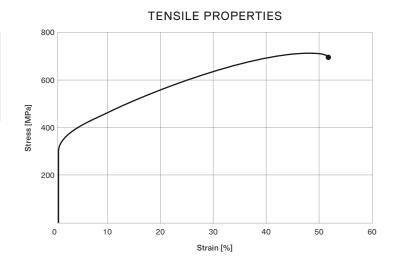
IN625 is a high-performance nickel based superalloy known for its toughness and excellent corrosion resistance in both oxidizing and reducing environments. It is more corrosion resistant and can be used in higher temperatures than IN718, but exhibits inferior mechanical properties.

It is well suited for a variety of demanding applications in chemical processing, aerospace and marine engineering, power generation, and oil/gas. The material is notoriously difficult to machine, making 3D printing an attractive alternative.



Composition	Weight%
Aluminum	0.30
Cobalt	0.15
Chromium	21
Iron	0.75
Manganese	0.04
Molybdenum	9.0
Niobium	3.8
Nickel	Balance
Silicon	0.02
Titanium	0.30

xcellent corrosion resistance
Good strength and toughness



^{*}Related denominations: UNS N06625, 2.4856 and NCF625

Physical Properties	As Sintered
Ultimate tensile strength [MPa]	725
Yield strength [MPa]	325
Elongation [%]	45
Hardness [HRB]	82
Relative density [%]	98



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