

INCONEL ALLOY 80A

NICKEL ALLOY

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HIGH TEMPERATURE RESISTING ALLOY

INCONEL 80A covers hot- and cold-worked precipitation-hardenable nickel alloy rod, bar, forgings, and forging stock for high-temperature service. Uses for this alloy tend to be in the field of gas turbine components and cryogenic storage tanks. Jet engines, pump bodies and parts, rocket motors and thrust reversers, nuclear fuel element spacers, hot extrusion tooling. Other popular uses are high strength bolting, and down hole shafting.

Chemical Properties

C	Mn	S	Si	Cr	Ti	Al	Fe
0.10 Max	1.00 Max	0.020 Max	1.00 Max	18.0-21.0	1.80-2.70	0.50-1.80	3.00 Max

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
620	930	20

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N07750
En Name NiCr15Fe7TiAl
W.Nr. 2.4669
AFNOR NC15TNbA

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