

INCONEL ALLOY 800

NICKEL ALLOY

HIGH TEMPERATURE RESISTING ALLOY

Inconel Alloy 800 is a Nickel-iron-chromium alloy having the same basic composition as INCOLOY alloy 800 but with significantly higher creep-rupture strength. The higher strength results from close control of the carbon, aluminum, and titanium contents in conjunction with a high-temperature anneal. Used in chemical and petrochemical processing, in power plants for super-heater and re-heater tubing, in industrial furnaces, and for heat-treating equipment

Chemical Properties

C	Mn	S	Si	Cr	Ni	Cu	Ti	Al	Fe
0.10 Max	1.5 Max	0.015 Max	1.0 Max	19.0-23.0	30.0-35.0	0.75 Max	0.15-0.60	0.15-0.60	39.5 Min

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
207	517	30

Heat Treatment

Solution Annealed @ 1177°C & Rapidly Liquid Quenched

Equivalent Designation

UNS N08800
 En Name X10NiCrAlTi32-20
 W.Nr. 1.4876
 BS NA 15
 AFNOR Z 10 NC 32-21

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