

Alloys Name	INCOLOY 800H		
UNS Number	N08810	Density(g/cm ³)	7.95
Chemical Composition(%)	Aluminum + Ti 0.3-1.2 Carbon 0.08 Chromium 21.0 Copper 0.75 max Iron Balance Manganese 1.5 max Nickel 32.5 Silicon 1 max Sulphur 0.015 max Titanium 0.15 - 0.6		
Mechanical Property(Normal Temperature)			
Condition	Tensile Strength 100psi(Mpa)	Yield Strength 100psi(Mpa)	Hardness Brinell (Rockwell)
Annealed	65-95(450-660)	20-50(140-340)	100-184(B54-90)
Specification	ASTM B (ASME SB-) 163 407 408 409 564		
Description/Applications	* A version of Incoloy 800 having higher creep & rupture strength. * Used in steam/hydrocarbon reforming for catalyst tubing, pigtails & convection tubing etc.		

Alloys Name	INCOLOY 800HT		
UNS Number	N08811	Density(g/cm ³)	7.95
Chemical Composition(%)	Aluminum 0.15 - 0.6 Aluminum + Ti 0.85 - 1.2 Carbon 0.06 - 0.1 Chromium 19 - 23 Copper 0.75 max Iron Balance Manganese 1.5 max Nickel 30 - 35 Silicon 1 max Sulphur 0.015 max Titanium 0.15 - 0.6		
Mechanical Property(Normal Temperature)			
Condition	Tensile Strength 100psi(Mpa)	Yield Strength 100psi(Mpa)	Hardness Brinell (Rockwell)
Annealed	65-95(450-660)	20-50(140-340)	100-184(B54-90)
Specification	Microfer 3220 HT(tm) Sanicro 31HT(tm) ASTM B407 ASTM B408 ASTM B409 DIN 1.4876 DIN 1.4959 UNS N08811		
Description/Applications	* Similar to alloys 800 and 800H with better high-temperature strength, Higher design strength values for use above 1150°F(620°F). * Chemical and power plant super-heater and reheater tubing; steam methane reformer pigtails, headers, and furnace tubing; process piping.		