

## Description

347/347H is an austenitic chromium steel containing columbium often used in refineries, high temperature chemical processing, and high temperature steam service. This columbium bearing steel is not sensitive to intergranular corrosion after heating within the range of carbide precipitation but elevated properties may be achieved through cold reduction.

## Product Capabilities

Form Name	Size Range	Schedules	Specifications
Welded Pipe	1/2"-36"	10S, 40S, 80S	ASTM A312 / ASME SA312
Seamless Pipe	1/2"-36"	40S, 80S, 120, 160, XXH	ASTM A312 / ASME SA312
Buttweld Fittings	1/2"-36"	40S, 80S, 160	ASTM A403 / ASME SA403
Flanges	1/2"-36"	150#, 300#, 600#	ASTM A182 / ASME SA182
Pressure Fittings	1/2"-2"	300#/6000#/9000# THRD/SW	ASTM A182 / ASME SA182

\*The material is also available with a stabilization heat treatment upon request: Pipe - A312 S6, Buttweld Fittings - A403 S2, Flanges - A182 S10.

## Limiting Chemical Composition %

C	Co	Cr	Mn	Ni	P	S	Si	Ti
MAX 0.08	Trace*	17.0-20.0	MAX 2.0	9.0-13.0	MAX 0.04	MAX 0.30	MAX 0.75	Trace*

\*The columbium plus tantalum content shall not be less than 10 times the carbon content and not more than 1.0%.  
Note: 347H requires the columbium plus tantalum content to be not <8 times the carbon content and not >1.0%.

## Typical Industrial Applications

- High-temperature chemical process
- Heat exchanger tubes
- Refineries
- High-temperature steam service

## Tensile Requirements

Tensile Strength ksi (min.)	Yield Strength ksi (min.)
75	30