

## Description

A low-carbon, high-alloy austenitic stainless steel engineered for severe corrosive environments. Fully austenitic by design, 904L resists precipitation ferrite and sigma phases better than conventional high-molybdenum grades. Originally developed for dilute sulfuric acid, it provides proven, exceptional general corrosion resistance in both sulfuric and phosphoric conditions.

## Product Capabilities

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

## Limiting Chemical Composition %

C	Cr	Cu	Mn	Mo	Ni	P	S	Si
MAX 0.02	19.0-23.0	1.0-2.0	MAX 2.0	4.0-5.0	23.0-28.0	MAX 0.045	MAX 0.035	MAX 1.0

## Typical Industrial Applications

- Production and transport of sulfuric acid
- Metal pickling in sulfuric acid
- Production and concentrations of phosphoric acid
- Use in seawater, brackish water, condensers, heat exchangers and general pipe work
- Paper and allied industries
- Gas washing

## Tensile Requirements

Tensile Strength ksi (min.)	Yield Strength ksi (min.)
70	25