



904L

1. Brief introduction:

Alloy 904L (UNS No8904) is a super austenitic stainless steel with 25% nickel and 4.5% molybdenum.

Alloy 904L provides good chloride stress corrosion cracking resistance, pitting and general corrosion resistance superior to 316L and 317L molybdenum enhanced stainless steels.

It is non-magnetic in all conditions and has excellent weldability and formability. The austenitic structure also gives this grade excellent toughness, even down to cryogenic temperatures.

It's suitable for pollution control, chemical processing, metallurgical processing, oil and gas production, pharmaceutical industry, pulp and paper, seawater and brackish water industry.

2. Main specifications:

Common name	UNS	W.Nr
904L	No8094	1.4539

3. Chemical composition under ASTM A240 standard:

chemical composition,%										
Grade	Ni	Cr	Mo	Mn	Cu	Si	C	P	S	Fe
UNS No8904	23.0-28.0	19.0-23.0	4.0-5.0	≤2.0	1.0-2.0	≤1.0	≤0.02	≤0.045	≤0.035	Bal.

4. Main product types:

wire,rod, bar,strip,sheet/plate,tube/pipe,flanges, etc.



5. Main produce standards:

Wire, rod, Bar, forging	Sheet/plate,Strip	pipe,flange,fitting,valve
ASTM A276	ASME SA625	ASTM A269/A213/A312
ASTM A479	ASME SA240	NFA 49-217
ASTM A473	ASTM A240	EN 10216-5
EN 10088-3	EN 10088-2	ASTM A182

6. 904L Source URL:

<https://www.hitealloy.com/product/904l-n08904-1.4539.html>