

904L is a high-alloy austenitic stainless steel with low carbon content. 904L has good resistance to general corrosion, particularly in sulfuric and phosphoric conditions. It has been application proved over many years and was originally developed to resist corrosion in dilute sulfuric acid.

904L Specification

UNS	W.Nr
N08904	1.4539

904L Chemical composition

Grade	%	Ni	Cr	Mo	Cu	Fe	C	Mn	P	S
904L	Min	24	19	4	1	Bal.				
	Max	26	21	5	2		0.02	2	0.03	0.015

904L Mechanical properties: (Minimum value at 20°C)

Tensile Strength σ_b /MPa	Yield Strength $\sigma_{p0.2}$ /MPa	Elongation σ_5 /%
≥490	≥215	≥35

904L Standard

Bar/Rod	Forging	Sheet/Strip	Wire	Pipe/Tube	Welding wire
ASTM B649	—	ASTM B625	ASTM B649	ASTM A269 ASTM A249 ASTM A312	AWS A5.9 ER385

904L Size Range

- Wire: Dia 0.08-12mm
- Bar: Dia 1.0-300mm
- Strip(Coil): 0.2-20mm TCK x 10-300mm W
- Sheet: min.0.7mm TCK x 1200mm W max.
- Tube & Forging & Machine Parts: customized
- Welding wire: 0.8mm, 1.0mm, 1.2mm, 2.0mm, 2.4mm, 3.2mm, 3.8mm, 4.0mm etc
- Welding Strip: 0.4-0.7mm TCK x 25-60mm W