

Westgate

904L

(UNS N08904) W. Nr. 1.4539

Chemical composition	Cu	Mo	Si	p	Fe	S	Mn	Cr	Ni
% Present (Max)	1.0-2.0	4.00-5.00	1.00	0.045	Bal	0.035	2.00	19.0-23.0	23.0-28.0

Alloy 904L (UNS N08904) is a superaustenitic stainless steel that is designed for moderate to high corrosion resistance in a wide range of process environments. The combination of high chromium and nickel content, coupled with additions of molybdenum and copper, assure good to excellent corrosion resistance. With its highly alloyed chemistry—25% nickel and 4.5% molybdenum—904L provides good chloride stress corrosion cracking resistance, pitting resistance, and general corrosion resistance superior to 316L and 317L molybdenum enhanced stainless steels. Alloy 904L was originally developed to withstand environments containing dilute sulfuric acid. It also offers good resistance to other inorganic acids such as hot phosphoric acid as well as most organic acids. Alloy 904L is easily welded and processed by standard shop fabrication practices.

Note: Values are in accordance with EN 10088 specifications. Actual mill certs available upon request.

