

Code	X2CrNiMo17-12-2
US standard (AISI)	316L
Composition Alloying components [%]	 C: 0 - 0.03 N: 0 - 0.10 P: 0 - 0.045 Cr: 16.50 - 18.50 Ni: 10.00 - 13.00 Remainder:Fe Mn: 0 - 2.00 S: 0 - 0.015 (0.030*) Mo: 2.00 - 2.50 Si: 0 - 1.00
Stainless steel grade	A4
Density [g/cm³]	8.0
Nickel migration [µg/(cm² x week)] in artificial perspiration (pH 4.5)	<0.05
Yield point Rp0.2 [N/mm²]	≥200
Tensile strength Rm [N/mm²]	500 - 700
Corrosion resistance	 Very good Similar to 1.4401 but also resistant to intergranular corrosion
Machinability	medium
Weldability	very good
Other properties	 Austenitic non-magnetic structure Can be mechanically polished to a brilliant sheen Suitability for electropolishing: very good For use in the temperature range -50 - 550°C
Main uses	 General applications involving higher levels of corrosive stress within the following sectors: Food industry Swimming pool technology Oil industry Construction industry Chemical industry Medical engineering Aviation Offshore equipment