



AUSTENITIC STAINLESS STEEL	
EN DESIGNATION	ASTM DESIGNATION
1.4401/1.4404	316L/316
	S31603

Description:

Cr-Ni-Mo austenitic stainless steels contain Mo to increase resistance to pitting corrosion. “L” grades with low carbon content, are preferred for applications involving uses at sensitization temperature, such as welding because chromium carbides precipitation is prevented, then, their resistance to intergranular corrosion is increased.

Chemical Composition:

C	S	P	Mn	Si	Cr	Ni	Mo	N	Ti	Nb	Cu
≤ 0.030	≤0.030	≤ 0.045	≤2.00	≤ 0.75	16.0-18.0	10.0-14.0	2.00-3.00	≤0.10	≤ 0.10	≤ 0.30	≤ 0.75

Mechanical Properties:

Rm (MPa)	Rp0.2 (MPa)	A50 (%)	HRBW
≥ 515	≥ 205	≥ 40	≤ 95

Applications:

Chemical and petrochemical industries, food, pharmaceutical, textile industries, architectural decoration, welding application, tubes, boilers and vehicle tank

Stress Corrosion Cracking:

Stress corrosion cracking can happen in austenitic stainless steels when they are subject to tensile stresses in chloride containing media and temperature above 60°C.

Surface Cleaning:

Wash the surface with neutral soap and water applied with a cloth or a brush without scratching the stainless steel. Then, always rinse the stainless steel with water to remove completely the cleaning agent. Finally, it is recommended to dry the surface to preserve a good superficial condition. In severe environments, a frequent cleaning is strongly recommended.

Specifications:

It can be delivered according to EN, ASTM, ASME standard requirements.

Is approved in compliances with:

- PED (Pressure Equipment Directive) according to EN 10028-7 and AD 2000 Merkblatt W2 and W10.