

AUSTENITIC STAINLESS STEEL	
EN DESIGNATION	ASTM DESIGNATION
1.4310	301
	S30100

Description:

It exhibits high toughness, corrosive atmosphere resistance and surface brightness. All of this makes it an excellent choice for structural and decorative applications. Moreover, 301 offer good weldability properties and can be obtained as annealed product or with different hardness grades.

Chemical Composition:

C	S	P	Mn	Si	Cr	Ni	N
≤ 0.150	≤0.030	≤ 0.045	≤2.00	≤ 1.00	16.0-18.0	6.0-8.0	≤ 0.10

Mechanical Properties:

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

Applications:

Architectural, automotive decorative elements, food industry, tableware, household, aeronautical components, railway cars, trucks superstructures and springs.

Corrosion Resistance:

The corrosion resistance of 301 is slightly lower. It is more likely to suffer intergranular corrosion. In case of carbide precipitation during welding processes 304L is recommended. It is suitable for urban environments and food handling applications.

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.