



AUSTENITIC STAINLESS STEEL	
EN DESIGNATION	ASTM DESIGNATION
1.4845	310S
	S31008

Description:

Refractory austenitic stainless steel 310S has high mechanical resistance, toughness and excellent high-temperature oxidation resistance, as a result of its high chromium and nickel content. The low carbon level reduces carbide precipitation during welding or high temperature applications. It is more resistant to high-temperature oxidation.

Chemical Composition:

C	S	P	Mn	Si	Cr	Ni
≤ 0.08	≤ 0.030	≤ 0.045	≤ 2.00	≤ 1.50	24.0-26.0	19.0-22.0

Mechanical Properties:

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

Applications:

Electric resistances, furnaces, high-temperature applications and air heaters

Corrosion Resistance:

These steels are optimized at high temperature. When used in other media, these steels are equivalent to any other general purpose austenitic stainless steel.

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