

310S stainless steel bars:

Type	Specification	Calculation	Price
310S stainless steel bars 1129	8-350	Round bar: Diameter (mm) * Diameter (mm) * 0.00609 = kg/m Hexagonal bars: across flats * across flats * 0.0069 = kg/m Square bar: Across flats * across flats * 0.00793 = kg/m	Under Discussion
310S stainless angle steel	2.5-8.0		Under Discussion
310S stainless plat steel 1163	2.5-8.0		Under Discussion
310S stainless steel cold drawing vertical bar	2-12		Under Discussion
310S stainless steel plain round bar	14-35		Under Discussion

310S austenitic chrome-nickel stainless steel has good oxidation resistance, corrosion resistance with good high temperature resistance. because a higher percentage of chromium and nickel, 310S has a much better yield strength making it continuously operating at high temperature.

Chemical Composition of 310S stainless steel bars:

C	Si	Mn	P	S	Cr	Ni
≤0.08	≤1.50	≤2.00	≤0.045	≤0.03	24-26	19-22

Mechanical property of 310S stainless steel bars:

Mechanical property				
Yield Strength $\sigma_{0.2}$ (MPa)	Tensile Strength $\sigma_b$ (MPa)	Hardness	Area Reduction $\psi$ (%)	Elongation $\delta_5$ (%)
≥205	≥520	≤187HB; ≤90HRB; ≤200HV	≥60	≥40

310S Stainless Steel (2520) high temperature resistant steel: 310S has good resistance to oxidation, corrosion, acid salt, high temperature for high Nickel (Ni), chromium (Cr) content. High temperature resisted tube is used to manufacture high-temperature electric furnace steel pipe and so on. If increase the carbon content in austenitic stainless steel, the strength will be improved due to its solid solution strengthening effect. The chemical composition of austenitic stainless steel are chromium and nickel-based adding molybdenum, tungsten, niobium and titanium and other elements. Because of its organization of the cubic structure, it has high strength and creep strength at high temperatures.

It is mainly used in petroleum, electronics, chemical, pharmaceutical, textile, food, machinery, construction, nuclear power, aerospace, military and other industries!