

316 stainless steel strip:

316 stainless steel strip, under ASTM standard, we can regard 316 as heat-corrosion-resistant stainless steel strip, austenitic stainless steel. It is equivalent to 0Cr17Ni12Mo2, but better than 304 stainless steel plate. In sea water and various other media, its corrosion resistance is better than 0Cr19Ni9.

Properties of 316 stainless steel :

Hardness			Yield Strength $\sigma_{0.2}$ (MPa)	Tensile Strength σ_b (MPa)	Elongation δ_5 (%)	Area reduction ψ (%)
HV	HRB	HB	≥ 205	≥ 520	≥ 40	≥ 60
≤ 200	≤ 90	≤ 187				

Mechanical Property of 316 stainless steel:

Tensile Strength	N/mm ²	≥ 520
Yield Strength	N/mm ²	≥ 205
Elongation	%	≥ 40
Hardness	HB	≤ 187
	HRB	≤ 90
	HV	≤ 200
Density	g/cm^3	7.93
Specific Heat	J / g °C	0.502c (20°C)
Heat Conductivity	λ W/m°C	12.1 (20°C)
		16.3 (100°C)
		21.4 (500°C)
Linear Expansivity	$\alpha(10^{-6}/°C)$	16 (20-100)
		16.8 (20-200)
		17.5 (20-300)
		18.1 (20-400)
Resistivity		0.73 $\Omega^* mm^2 / m$
Melting Point	°C	1398-1420