

## 201 Stainless Steel Strip

Physical properties of 201 Stainless Steel Strip :

Density (bs/cubic inch)	Elastic Modulus (psi)	Yield Strength (psi)	Tensile Strength (psi)	Elongation (%)
2801	29,000,000	50,000 - 150,000	100,000 - 180,000	55 - 60

201 stainless cold-rolled steel strip is used for complex deep drawing parts of the low carbon cold-rolled structural steel strip. The state of the surface of the supplied strip should be rough or polished.

Application : widely used in tractor automobile industry, aviation industry.

The function of nickel in stainless steel:

Nickel is an element to expand and stabilize the austenite phase region of austenite. In order to obtain a single austenite, when the steel contains 0.1% carbon and 18% chromium, the minimum nickel is about 8%, and this is the basic elements of the most famous 18-8 (304 stainless steel) chromium-nickel austenitic stainless steel. In austenitic stainless steel, with the increasing of nickel content, the residual ferrite can be completely eliminated, and significantly lower tendency to the formation of  $\sigma$  phase; at the same time, the temperature of martensite turn hydrocarbons will lower, or even may cover  $\lambda \rightarrow M$  phase transition, but will reduce carbon solubility in austenite stainless steel, so that the carbide precipitation tend to increase.