



Hatip Mah. 1708. Sk. D Blok No. :6 Çorlu/ TEKİRDAĞ <u>info@bhmetal.com.tr</u> www.bhmetal.com.tr

Grade	Code	AISI	Austenitic Stainless Steel		
1.4301	X5CrNi18-10	304	Austennic Stamless Steel		

## **Steel Properties**

The most popular, basic and at the same time proven grade of chromium-nickel stainless steel in the known base combination 18/8, characterized by excellent intergranular, stress and pitting corrosion resistance. AISI 304 steel is characterized by full austenitic structure, low carbon content, very good impact strength, formability and ductility, excellent weldability, non-magnetic properties and susceptibility to bending and machining.

# **Chemical Composition (1.4301)**

Ī	C %	P %	Si %	Mn %	S %	Cr %	Mo %	Ni %	Cu %	W %
	0,07	0,045	1,00	2,00	0,015	17,50 –		8,00 -		
	max.	max.	max.	max.	max.	19,50	-	10,5	-	-

## **Mechanical Properties**

Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness [HB]	
≥ 200	520 – 700	≥ 40	< 215	

### **Suitable For**

AISI 304 is used in the production of building architecture finishes, structures, gas and chemical drainage systems, household appliances and consumer electronics, other everyday use equipment, agricultural machinery, industrial pipelines, heat exchangers, silos, distillation boilers, pump parts, mixers, paint and pharmaceutical industry equipment, dishes and cutlery, knives, discs, hooks, as well as furnaces in meat processing, exhaust systems, rotors, medical equipment, separators, tanks and tanks for chemicals, valves, other fittings (flanges, nuts, bolts, elbows, arches, tees), compressors, bearings, rings, radiators, apparatus or equipment in the food and chemical industry, springs, shafts, lightly loaded gears, filters and sieves, and even automotive parts.

#### **Remarks**

## **Specification**

AISI 304, 1.4301, X5CrNi18-10