



| Grade | Code | AISI | Austenitic Stainless Steel |
|--------|------------|------|----------------------------|
| 1.4307 | X2CrNi18-9 | 304L | |

Steel Properties

1.4307 is an austenitic chromium-nickel steel. Due to the low carbon content, the solidification tendency is reduced, which benefits the machinability. 1.4307 has good corrosion resistance in natural environment. X2CrNi18-9 is resistant to intercrystalline corrosion and can be processed well.

Chemical Composition (1.4307)

| C % | P % | Si % | Mn % | S % | Cr % | Mo % | Ni % | Cu % | W % |
|--------------|---------------|--------------|--------------|--------------|------------------|------|-----------------|--------------|-----|
| 0,03 max. | 0,045 max. | 1,00 max. | 2,00 max. | 0,03 max. | 17,50 – 19,50 | - | 8,00 – 10,00 | 1,00 max. | - |

Mechanical Properties

| Rp0.2, Mpa | Rm, Mpa | Elongation [%] | Hardness [HB] |
|------------|-----------|----------------|---------------|
| ≥ 190 | 460 – 700 | ≥ 45 | < 215 |

Suitable For

Its application is present 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 304L, 1.4307, X2CrNi18-9