

C ≤ 0,03 / Cr 18,0 – 20,0 / Ni 10,0 – 12,0  
1.4306 / X2 CrNi 19-11 / DIN EN 10088 / DIN 17440  
AISI 304L / BS 304 S 11 / SiS 2352\*



### Applications

Mechanical engineering; chemical industry; petrochemical industry; food industry and agricultural engineering; transportation and automotive engineering; decoration and kitchen fittings.

### Processing techniques

Machining; open-die and drop forging; cold forming and cold upsetting.

### Corrosion resistance ●●●○○

In comparison to material 1.4301, material 1.4306 is characterised by high resistance to nitric acid at high concentrations and temperatures.

### Mechanical properties ●●○○○

Optimal processing properties are achieved by means of heat treatment in the temperature range of between 1000 and 1080 °C followed by rapid cooling in air or water.

### Forging ●●●●○

Erwärmung ohne besondere Vorkehrungen auf 1150 °C. Warmumformung im Bereich zwischen 1150 und 950 °C. Abkühlung an Luft oder Wasser, wenn ein Verzug nicht zu befürchten ist.

### Welding ●●●●●

Material 1.4306 can be welded without difficulty.

### Machining ●●○○○

Material 1.4306 shows a tendency towards work-hardening during processing. A sulphur content of 0.020 to 0.030 % has a beneficial effect.

### Note

Suitable for severe cold forming and subsequent drawing. 1.4306 can be weakly magnetic. The magnetizability can increase as the cold forming increases.