with titanium additive

 $C \le 0.08$ / Cr 16,5 – 18,5 / Ni 10,5 – 13,5 / Mo 2,0 – 2,5 / Ti 5xC bis 0,7 1.4571 / X6 CrNiMoTi 17-12-2 / DIN EN 10088 / DIN 17440 AISI 316 Ti / BS 320 S 31 / SIS 2350*



Applications

Mechanical engeneering; chemical industry; food industry/agricultural engeneering; aviation; transportation/automotive engeneering; military engeneering; nautical gear.

Processing techniques

Machining; open-die and drop forging.





Corrosion resistance ••••

Compared to material 1.4301, material 1.4571 is characterised by its properties in nitric acid and in organic cooled acid solutions. The stability is higher than that of 1.4541.

Mechanical properties ●●○○○

Optimal processing properties are achieved by means of heat treatment in the temperature range of between 1020 and 1100 °C followed by rapid cooling in air or water.

Forging ●0000

Slow heating to 1150 °C. Hot forming at 1150 to 950 °C. Cooling in air or water.

Welding ••••

Material 1.4571 can be welded without difficulty.

Machining ●0000

Material 1.4571 shows a tendency towards work-hardening during processing. A sulphur content of 0.020 to 0.030 % has a beneficial effect.

Note

1.4571 can be weakly magnetic. The magnetizability can increase as the cold forming increases.

