Material type

Metal

ZARTLINK

Material name

Stainless steel 316/316L | 1.4401/1.4404 | X5CrNiMo17-12-2/X2CrNiMo17-12-2

Alternative names **X2CrNiMo17-12-2, 1.4404**

Process compatibility

CNC machining

Mechanical properties

Ultimate tensile strength	480 - 600 MPa
Yield strength	170 - 230 MPa
Young's modulus (modulus of elasticity)	190 - 205 GPa
Elongation at break	38-55 %

Physical properties

Corrosion resistance	Excellent
Magnetism	Non-magnetic
UV resistance	Excellent
Weldability	Excellent

Thermal properties

Maximum service temperature	750 - 925 °C
Thermal expansion coefficent	15 - 18 10^-6/°C
Thermal conductivity	13 - 17 W/(m·°C)

Electrical properties

Electrical	resistivity
LIECTICAL	reastivity

69 - 81 μΩ*cm

Post treatments

Post-Processing	Annealing & Cold working
Anodizing compatibility	Not suitable

Common applications

Chemical and petrochemical industry

Food processing

Pharmaceutical equipment

Medical devices

Potable water

Wastewater treatment

Marine applications

ZartLink is The Global First FairPrice Flex Manufacturing Platform for Future. From rapid prototyping to production, provide global clients quality parts with cheaper prices.