Stainless Steel 316L

UNI X5CrNiMo17 / EN X5CrNiMo17-12 / 1.4404 / BS 316S31 / AFNOR Z7CND17-12-02 / UNE F3534

Highly versatile and corrosion-resistant material that is ideal for use in harsh environments and applications where strength and durability are required.

Material properties

Density		**7,85**	g/cm³
Tensile strength	ISO 6892	**560**	MPa
Elongation at break	ISO 6892	**45**	%
Yield strength	ISO 6892	**205**	MPa
Elastic modulus	ISO 6892	**200**	GPa
Resilience	ISO 148	**135**	kJ/m²
Hardness	ISO 6508	**215-225**	HB
Melting temperature		**1435**	°C
Thermal conductivity (20°C)		**15**	W/mK
Electrical resistivity		**0,73**	Ωmm²/m

Main alloy elements
Iron - Chromium - Nickel - Molybdenum

Maximum dimensions
300x300x60 mm (11.8x11.8x2.4 in)

Tolerances
ISO 2768-1 fine (f) or medium (m) class

Applications
Overall, 316 Stainless Steel is a very versatile material that offers excellent strength, durability and corrosion resistance. It is the best choice for a wide range of industrial and commercial applications where reliability and performance are critical.