

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/cm ³
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/m ²
Hardness	ISO 6508	215-225	HB
Melting temperature		1435	°C
Thermal conductivity (20°C)		15	W/mK
Electrical resistivity		0,73	Ωmm ² /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.

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