

1.4404

Description - 1.4404 / AISI 316 L is an austenitic chromium-nickel-molybdenum stainless steel with low carbon content.

Special properties - Very good stability against chloric media and non-oxidizing acids.

Suitable welding filler materials - 1.4403, 1.4430, 1.4576.

Application - Construction of apparatus, textile industry, pulp industry, dairy, brewery.

Chemical Composition in %

C	Si	Mn	Cr	Ni	Mo	Fe
≤0.03	≤1.00	≤2.00	16.5-18.5	10.0-13.0	2.0-2.5	Rest

Standards

Material No.	1.4404
EN Designation	X2CrNiMo17-12-2
AISI/SAE	316 L
UNS	S31603

Mechanical Properties 20 °C

Hardness HB 30	≤215
0.2% Yield strength Rp, N/mm²	≥200
Tensile strength Rm, N/mm²	500-700
Elongation A5, %	≥40/30
Modulus of elasticity, kN/mm²	200

Physical Properties 20 °C

Density, g/cm³	8
Specific heat capacity, J/kg K	500
Thermal conductivity, W/m K	15
Electrical resistivity, Ω mm²/m	0.75