

Standards

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

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.

Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.030	1.00	2.00	0.045	0.015
Cr %	Mo %	Ni %	N %	
16.5-18.5	2.00-2.50	10.0-13.0	≤ 0.11	

Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R _{0.2} ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
215	200	500-700	40/30	200

Physical Properties 20°C

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
8	500	15	0.75

Suitable welding filler materials

1.4403; 1.4430; 1.4576

Application

Construction of apparatus, textile industry, pulp industry, dairy, brewery

Available forms for 1.4404 / AISI 316 L

Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
						