

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.04	0.75	2.00	0.035	0.015
Cr %	Mo %	Ni %	N ≤%	B ≤%
16.0-18.0	2.00-3.00	12.0-14.0	0.10-0.18	0.0015-0.0050

Description

AISI 316 LN / 1.4910 is an austenitic chromium-nickel-molybdenum stainless steel in addition with nitrogen and boron.

Special Properties

1.4910 / AISI 316 LN is a high temperature resistant version to 1.4429. Excellent weldability. Very good corrosion resistance.

Steel Grade

AISI	UNS	Material No.	EN Designation
316LN	S31653	1.4910	X3CrNiMoBN17-13-3

Mechanical Properties 20 C

Resistant on air up to °C	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
700	260	550-750	35	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
7.98	450	16	0.77

Suitable Welding Filler Materials

1.4430

Application

Pressure vessels and steam boilers, chemical industry

Available Forms for AISI316LN

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