

Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4429	X2CrNiMoN17-13-3	316 LN	S31653

Description

1.4429 / AISI 316 LN is an austenitic chromium-nickel-molybdenum stainless steel.

Special properties

High stability and extraordinary low permeability. Slightly better quality than 1.4436 / AISI 316.

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	2.50-3.00	11.0-14.0	0.12-0.22	

Mechanical Properties 20°C

Hardness HB 30 ≤ HB	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
250	280	580-800	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

1.4430; 1.4455

Application

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

Available forms for 1.4429 / AISI 316 LN

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