

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.030	1.00	2.00	0.045	0.015
Cr %	Mo %	Ni %	N ≤%	
17.5-19.5	3.00-4.00	13.0-16.0	0.11	

Description

1.4438 / AISI 317 L is an austenitic chromium-nickel-molybdenum stainless steel.

Special Properties

Better corrosion resistance than AISI 316L, specially in high-corrosive environments with chlorides and halides.

Steel Grade

AISI	UNS	Material No.	EN Designation
317L	S31700	1.4438	X2CrNiMo18-15-4

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
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	14	0.85

Suitable Welding Filler Materials

1.4440/1.4438

Application

Cellulose industry, chemical industry

Available Forms for AISI317L

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