

Standards

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

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.

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	

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	14	0.85

Suitable welding filler materials

1.4440; 1.4438

Application

Cellulose industry, chemical industry

Available forms for 1.4438 / AISI 317 L

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