STAINLESS STEEL

316 Mo >2.5% - 1.4435



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Stainless Steel 316L Mo>2.5% - 1.4435 is a type of austenitic stainless steel that has a low carbon content and a high molybdenum content. It is also known as 316L UG or 316L modified. The elevated molybdenum content (greater than 2.5%) in 1.4435 provides enhanced corrosion resistance, especially in aggressive environments containing chlorides.

KEY FEATURES

- Excellent corrosion resistance
- Improved resistance to acids
- Chloride resistance
- Generally weldable
- Formability and fabrication

CHEMICAL PROPERTIES

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Chromium	Nickel	Molybdenum	Manganese	Silicone	Nitrogen	Phosphorus	Carbon	Sulphur
(Cr)	(Ni)	(Mo)	(Mn)	(Si)	(N)	(P)	(C)	(S)
17-19%	12.5-15%	2.5-3%	2%	1%	0.1%	0.045%	0.03%	0.02%
17-19-70	12.5-15-70	2.5-5%	2%	170	0.1%	0.045%	0.05%	0.02%

MECHANICAL PROPERTIES

Tensile strength (N/mm ²)	600
Yield strength (N/mm ²)	450
Elongation (% in 4D)	40
Hardness - Rockwell (HRB) max	94
Hardness - Brinell (HB) max	215

PHYSICAL PROPERTIES

Density (kg/m ³)	8000	
Modulus of elasticity (Gp	oa)	193
M	0-100°C (µm/m/°C)	17.2
Mean coefficient of	0-350°C (µm/m/°C)	17.8
thermal expansion	0-538°C (µm/m/°C)	18.4
Thermal	at 100°C (W/m.K)	15.0
conductivity	at 500°C (W/m.K)	20.8
Specific Heat 0-100°C (J	/kg.K)	500
Electrical resistivity (nΩ.	m)	750
Melting point (°C)		1450

MARKET SECTORS

Marine Equipment

Pharmaceutical

Industry



dairy processing

Boat fittings,

Equipment, storage,

transportation vessels

hardware





Processing equipment, reactors, vessels, piping



Platforms, piping, tubing



Structural components, building facades, handrails, cladding



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