NICKEL ALLOY

C276 - 2.4819





C276 - 2.4819

Stainless Steel 316 is one of the most widely used and versatile stainless steels, prized for its corrosion resistance and suitability for a broad range of applications. The 316L low carbon content helps reduce the susceptibility to sensitisation during welding, making 316L suitable for applications where post-welding annealing is not practical.

KEY FEATURES

- Excellent corrosion resistance
- Strength and mechanical properties
- Heat resistance
- General weldability
- General weldability

CHEMICAL PROPERTIES											
Molybdenum (Mo)	Chromium (Cr)	Iron (Fe)	Tungsten (W)	Cobalt (Co)	Manganese (Mn)	Vanadium (V)	Silicone (Si)	Carbon (C)	Sulphur (S)	Nickel (Ni)	
15-17%	15-16.5%	4-7%	3-4.5%	2.5%	1%	0.1-0.3%	0.08%	0.01%	0.01%	rest	

MECHANICAL PROPERT	IES
Tensile strength (N/mm²)	500-700
Yield strength (N/mm²)	170-220
Elongation (% in 4D)	40
Hardness - Rockwell C (HRC) max	92
Hardness - Brinell (HB) max	217

PHYSICAL PROPERTIES							
Density (kg/m³)	8000						
Modulus of elasticity (Gp	193						
Manage of Circles and a C	0-100°C (µm/m/°C)	15.9					
Mean coefficient of	0-350°C (µm/m/°C)	16.2					
thermal expansion	0-538°C (µm/m/°C)	17.5					
Thermal	at 100°C (W/m.K)	16.3					
conductivity	at 500°C (W/m.K)	21.5					
Specific Heat 0-100°C (J	500						
Electrical resistivity (nΩ.	740						
Melting point (°C)	1450						

MARKET SECTORS



Food & Beverage Industry

Chemical Processing

Conveyors, mixers, brewing and distillation equipment

Reactors, storage tanks, piping systems, heat exchangers

Marine Equipment Medical Devices

Aerospace

Industry .

Boat fittings, hardware, coastal structures

Surgical instruments, implants, dental instruments



Pharmaceutical Industry

in a Airman Chatrach and

Vessels, reactors, piping systems, processing equipment

Aircraft structural components, engine parts, hardware