NICKEL ALLOY

X750 - 2.4669

BORNMORE METALS



X750 - 2.4669

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

CHE	MICAL	PROF	PERTIE	S							
Nickel (Ni)	Chromium (Cr)	Iron (Fe)	Titanium (Ti)	Manganese (Mn)	Cobalt (Co)	Niobium (Nb)	Aluminium (Al)	Silicone (Si)	Copper (Cu)	Carbon (C)	Sulphur (S)
70%	14-17%	5-9%	2.25-2.75%	1%	1%	0.7-1.2%	0.4-1%	0.5%	0.5%	0.08%	0.01%

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

Conveyors, mixers, brewing and distillation equipment



Chemical Processing

Reactors, storage tanks, piping systems, heat exchangers

Marine Equipment

Boat fittings, hardware,

Medical Devices

Surgical instruments, implants, dental instruments



coastal structures

Pharmaceutical Industry

Vessels, reactors, piping systems, processing equipment

Aerospace Industry

Aircraft structural components, engine parts, hardware