NICKEL ALLOY

C22 - 2,4602



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Nickel Alloy C22, also known as Hastelloy C22, is a nickel-chromium-molybdenum alloy with the UNS N06022 designation. It is known for its exceptional corrosion resistance in highly aggressive environments and is often chosen for applications where resistance to both oxidising and reducing acids is required, especially in marine and chemical environments.

KEY FEATURES

- Excellent corrosion resistance
- Highly versatile
- High temperature stability
- Good weldability

CHE	MICAL	PROP	ERTI	ES							
Nickel (Ni)	Chromium (Cr)	Molybdenum (Mo)	Iron (Fe)	Tungsten (W)	Cobalt (Co	Manganese (Mn)	Vanadium (V)	Phosphorus (P)	Silicone (Si)	Carbon (C)	Sulphur (S)
50-63%	20-22.5%	3-3.5%	2-6%	2.5-3.5%	2.5%	0.5%	0.35%	0.015%	0.01%	0.01%	0.01%

MECHANICAL PROPERT	IES
Tensile strength (N/mm²)	765
Yield strength (N/mm²)	359
Elongation (% in 4D)	25
Hardness - Rockwell (HRB) max	95
Hardness - Brinell (HB) max	320

PHYSICAL PROPERTIES							
Density (kg/m³)	8650						
Modulus of elasticity (Gp	206						
Manage of Circles Andrew	0-100°C (µm/m/°C)	6.9					
Mean coefficient of	0-350°C (µm/m/°C)	7.2					
thermal expansion	0-538°C (µm/m/°C)	7.5					
Thermal	at 100°C (W/m.K)	10.2					
conductivity	at 500°C (W/m.K)	13.1					
Specific Heat 0-100°C (J	414						
Electrical resistivity (nΩ.	448						
Melting point (°C)	1400						

MARKET SECTORS



Pollution Control

Scrubbers, ducts, stacks in air pollution control systems



Chemical **Processing**

Reactors, vessels, piping systems



Oil & Gas

Components for sour gas applications



Marine **Industry**

Marine shafts, valves, fasteners



Pharmaceutical Industry

Equipment for handling corrosive substances



Aerospace Industry

Valves, fasteners, electrical components



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