SBO

H720 PRECISION ALLOY STEEL

Engineered for Subsea and Hydrogen Performance

OUR STEEL .
YOUR OPPORTUNITIES.

NORSOK M-650 Approved
AMPP / NACE MR0175
API 7-1
API 7-2 ISO 9001
ISO 14001
EN9100

API American Petroleum Institute · norsok standard · AMPP · Standard Norge

Corrosion and Strength Performance

H720 is engineered for demanding environments requiring high strength and corrosion resistance. Its alloy composition and production route ensure stability under thermal and mechanical stress.

MATERIAL PROPERTIES - TYPICAL VALUES

UNS S35130

CHEMICAL COMPOSITION (WT %)						
Iron (Fe)	Carbon (C)	Manganese (Mn)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)	Nitrogen (N)
Balance	0.03	3.0	29	30	3.5	0.30

MECHANICAL PROPERTIES			
Yield Strength (min.) 0.2% - offset method	OD up to 10"	120 ksi	827 MPa
Tensile Strength (min):		140 ksi	965 MPa
Elongation (min):		20%	20%
Reduction of area (min):		50%	50%
Impact energy (min):		120 ft. lb	160 J
Endurance Strength/ N = 10^5 (min):		± 90 ksi	±550 N/mm^2

Supply Stability Advantage

H720 offers improved supply chain reliability compared to traditional nickel-based alloys. With approximately 30% nickel and a controlled production route, lead times remain stable even during periods of high nickel demand.

1" OD – 10" OD, no minimum order quantity required

APPLICATIONS & PERFORMANCE

Designed for Extreme Conditions

Reliable performance in hydrogen, high-pressure and corrosive environments. Built for long-term integrity in critical service conditions.

SERVICE ENVIRONMENT

Subsea and energy production environments contain aggressive fluids including hydrogen sulphide (H_2S), carbon dioxide (CO_2), saline water and chlorides. These conditions require materials with high corrosion and embrittlement resistance.

H720 is designed for these environments, maintaining mechanical integrity over extended service life.

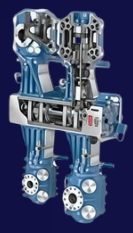
Key Properties
High Strength (YS 120-180 KSI)
Seawater Resistant (PRE 45)
Hydrogen Resistance (HISC)
H_2S and Elemental Sulphur Resistance
Stress corrosion cracking resistance
Pitting corrosion resistance

Application Areas SUBSEA

Fasteners, Bolts and nuts

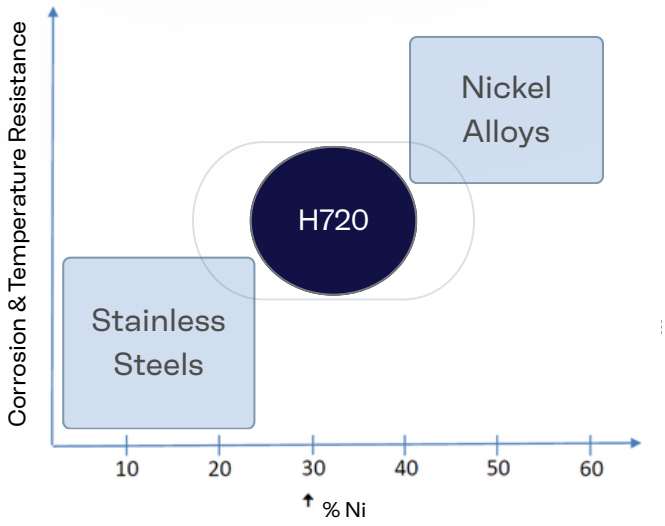
Subsea Valve & Flanges

Tubing Hangers & Gaskets



Pump / Compressor Parts

Sensors & Instrument Housing



"BRIDGING THE GAP" between Stainless Steels and Nickel Alloys

H720 delivers high strength and corrosion resistance through efficient alloy design for reliable, cost-effective subsea applications.

Lower nickel content. More stable supply. Reduced lifecycle cost.

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