

Incoloy 25-6Mo

Incoloy 25-6Mo is a super-austenitic stainless steel and shows significantly higher resistance to localized corrosion in halide media, with superior mechanical properties. It is characterized by:

- very high resistance to pitting and crevice corrosion in halide media and in H₂S containing sour environments
 - virtual immunity under practical conditions to chloride-ion stress-corrosion cracking
 - excellent general corrosion resistance in a wide range of media, both oxidizing and reducing
 - improved mechanical properties over alloy 904L
 - improved metallurgical stability over similar grades with only 18% nickel
 - approved for pressure vessels from -196 to 400°C by ASME

Chemical Composition, %

element	Cr	Ni	Fe	Cu	Мо	N	С	Mn	Si	Р	S
min.	19.0	24.0	bal.	0.5	6.0	0.15					
max.	21.0	26.0		1.5	7.0	0.25	0.02	2.0	0.5	0.03	0.01

Chemical Composition according to ASTM. Some compositional limits of other specifications may vary slightly.

Designation and standards

National	Material	Chemical Rod and		Plate and	Strip	Mina	Seamless
Standards	designation	composition	bar	sheet	Strip	Wire	tube
ASTM				B625	B625		
	LINIC NICOCOC		B649	SB625	SB625	B649	B677
ASME	UNS N08926	NAD 0475	SB649	A240	A240	SB649	SB677
NACE		MR 0175		SA240	SA240		
DIN	1.4529	DIN 10088-1	DIN 10088-3	DIN 10088-2	DIN 10088-2	DIN 10088-3	
	X1NiCrMoCuN25-20-7			DIN 10028-7	DIN 10088-2	DIN 10099-3	

Density 8.06g/cm³

Corrosion resistance

- excellent resistance to pitting and crevice corrosion in halide media
- high resistance to chloride-ion stress-corrosion cracking
- excellent resistance to a wide range of chemical media, even at higher temperatures and concentrations, incl. sulpuric acid, wet-process phosphoric acid, sour gas, seawater, salts and organic acids

Applications

Typical applications are:

- seawater filtration systems and process hydraulic and reinjection piping systems in the offshore industry
- bleaching plants in cellulose pulp production
- polished rods for corrosive oil wells
- tubing and couplings, wire lines and flowline systems in sour gas production
- components for flue-gas desulphurization plants, such as dampers and stacks
- evaporators, heat exchangers, filters and mixers used in the manufacture of phosphoric acid
- sulphuric acid distribution systems and coolers
- concentration and crystallization of salts by evaporation

You could send email to sales@huishih.com for more information.