

Hastelloy C-22

Hastelloy C-22 is an austenitic nickel-chromium-molybdenum alloy containing low-carbon and tungsten.

It is characterized by:

- outstanding resistance to a wide range of corrosive media under oxidizing and reducing conditions
- excellent resistance to pitting, crevice corrosion and stress-corrosion cracking

Chemical Composition, %

element	Ni	Mo	Cr	Fe	W	V	Co	C	Mn	Si	P	S
min.	bal.	12.5	20.0	2.0	2.5							
max.		14.5	22.5	6.0	3.5	0.35	2.5	0.015	0.5	0.08	0.02	0.02

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

Designation and standards

National Standards	Material designation	Chemical composition	Forgings	Rod and bar	Plate and sheet	Strip	Seamless tube
ASTM ASME	UNS N06022		B564				
		B564	B574	B575	B575	B622	
		B462	SB574	SB575	SB575	SB622	
		SB462					
DIN	2.4602 NiCr21Mo14W	DIN 17744		DIN 17752	DIN 17750	DIN 17750	DIN 17751
GB/T	NS3308, NS338	GB/T 15007					

Density 8.69g/cm³

Corrosion resistance

- outstanding corrosion resistance in as wide a range of media as possible, both oxidizing and reducing
- particularly suitable for oxidizing conditions, incl. wet chlorine gas, hypochlorite solutions or oxidizing acids
- remarkably resistant to localized attack by halide ions, even under severe conditions of low PH and high temperatures
- good resistance in media contaminated by oxidizing chlorides such as ferric chloride or cupric chloride

Applications

Typical applications are:

- organic syntheses
- flue gas desulphurization
- electrolytic galvanizing
- plate heat exchangers
- fine chemicals production
- incineration plants
- pharmaceutical intermediates
- combustion-resistant alloy for high pressure oxygen applications

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

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