

Hastelloy G-30

Hastelloy G-30 is a nickel-chromium-iron alloy with tungsten and molybdenum. It is characterized by:

- highly resistant to “wet process” phosphoric acid
- moderately resistant to chloride-induced localized attack
- less susceptible to chloride-induced stress corrosion cracking than the stainless steels

Chemical Composition, %

element	Ni	Cr	Fe	Mo	W	Cu	Nb	Co	C	Mn	Si	P	S
min.	余	28.0	13.0	4.0	1.5	1.0	0.3						
max.		31.5	17.0	6.0	4.0	2.4	1.5	5.0	0.03	1.5	0.8	0.04	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 N06030		B462 SB462 B366 SB366	B581 SB581 B472 SB472	B582 SB582		B622 SB622
DIN	2.4603 NiCr30FeMo						
GB/T	NS3404, NS344	GB/T 15007					

Density 8.22g/cm³

Corrosion resistance

- highly resistant to “wet process” phosphoric acid
- moderately resistant to chloride-induced localized attack
- less susceptible to chloride-induced stress corrosion cracking than the stainless steels
- good resistant to other oxidizing acids, such as nitric, and mixtures containing nitric acid
- moderate resistance to reducing acids, such as hydrochloric and sulfuric

Applications

Hastelloy G-30 finds wide application in chemical and petrochemical industry, due to its corrosion resistance in phosphoric acid.

Typical applications are:

- Phosphoric Acid Service
- Sulfuric Acid Service
- Nitric Acid Service
- Nuclear Fuel Reprocessing
- Pickling Operations
- Petrochemicals

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

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