HUISHIH FORGING ___

Hastelloy G-35

Hastelloy G-35 is a nickel-chromium- molybdenum 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

Chemical Composition, %

element	Ni	Cr	Мо	Fe	Со	W	Cu	V	С	Mn	Si	Р	S
min.	余	32.25	7.60										
max.		34.25	9.00	2.0	1.00	0.60	0.3	0.20	0.05	0.5	0.6	0.030	0.015

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

Designation and standards

National	Material	Chemical	Foreinge	Rod and	Plate and	Chrin	Seamless
Standards	designation	composition	Forgings	bar	sheet	Strip	tube
ASTM ASME			B564				
			SB564	B574			
			B462	SB574	B575		B622
	0105 1006035		SB462	B472	SB575		SB622
			B366	SB472			
			SB366				
DIN	2.4643						
	NiCr33Mo8						

Density 8.22g/cm³

Corrosion resistance

- highly resistant to "wet process" phosphoric acid, far superior to Hastelloy G-30
- extremely resistant to other oxidizing acids, such as nitric, and mixtures containing nitric acid
- moderate resistance to reducing acids, such as hydrochloric and sulfuric
- good resistant to "caustic dealloying" in hot sodium hydroxide

Applications

Hastelloy G-35 finds wide application in chemical and petrochemical industry, due to its corrosion resistance in phosphoric acid. Typical applications are:

- Wet-process phosphoric acid evaporators
- Pickling in nitric and hydrofluoric acids
- Chemical process industry systems involving nitric and chlorides
- Caustic neutralizing systems
- Systems requiring resistance to high temperature corrosion at 425-650°C

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