

Incoloy 20

Incoloy 20 is a low carbon, niobium stabilized austenitic nickel-iron-chromium alloy with alloying additions of copper and molybdenum.

Incoloy 020 is characterized by:

- excellent resistance to sulphuric and phosphoric acids
- good resistance to intergranular corrosion
- excellent resistance to chloride-ion induced stress-corrosion cracking
- good resistance to pitting and crevice corrosion
- good mechanical properties at both ambient and elevated temperatures, up to approx. 500°C

Chemical Composition, %

element	Cr	Ni	Fe	Cu	Mo	Nb	C	Mn	Si	P	S
min.	19.0	32.0	bal.	3.0	2.0	8xC					
max.	21.0	38.0		4.0	3.0	1.0	0.07	2.0	1.0	0.045	0.035

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	Wire	Seamless tube
ASTM ASME NACE	UNS N08020 F20	MR 0175	B462 SB462	B472 SB472 B473 SB473	B463 SB463	B463 SB463	B473 SB473	B729 SB729
DIN	2.4660 NiCr20CuMo	DIN 17744		DIN 17752	DIN 17750	DIN 17750	DIN 17753	DIN 17751
GB/T	NS1403, NS143	GB/T 15007		GB/T 15008				

Density 8.08g/cm³

Corrosion resistance

- excellent resistance to sulphuric, phosphoric and organic acids
- excellent resistance to aqueous solution of their salts
- good resistance to nitric acid
- excellent resistance to intergranular corrosion and stress corrosion
- good resistance to pitting and crevice corrosion

Applications

Typical applications are:

- equipment for manufacture of sulphuric acid and for processes based on sulphuric acid
- extraction columns in the production of amines and the processing of pharmaceuticals
- production of plastics and synthetic fibres
- equipment for good processing to protect against contamination

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

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