



Alloy 20

1. Brief introduction:

Alloy 20 is a Ni-Fe-Cr alloy with additions of Cu and Mo, and it also contains Nb for stabilization against sensitization and resultant intergranular corrosion.

Alloy 20 has excellent resistance to general corrosion, pitting and crevice corrosion in chemicals containing chlorides and sulfuric, phosphoric and nitric acids.

Alloy 20 is used for heat exchangers, tanks, piping, pumps, valves and other process equipment.

2. Main specifications:

USA	Chinese	UNS	Werkstoff Nr.
Alloy 20	NS143	No8020	2.4660

3. Chemical composition under ASTM B473-07 standard:

Grade	chemical composition, %										
	Ni	Cr	Fe	Mo	Nb+Ta	Mn	C	Cu	Si	S	P
UNS No8020	32.0-38.0	19.0-21.0	Remainder	2.0-3.0	8*C-1.0	≤2.0	≤0.07	3.0-4.0	≤1.0	≤0.035	≤0.045

4. Main product types:

wire, rod, forging, bar, strip, sheet/plate, tube/pipe.



Shanghai Hite Special Alloy Co., Ltd.
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5. Main produce standards:

Wire,Rod, Bar	Forging	Plate/Sheet/Strip	Tube/Pipe	Fitting
ASTM B472 ASTM B473 ASME SB472 ASME SB473	ASTM B462 ASME SB462	ASTM B463 ASME SB463	ASTM B464/B464M ASTM B468 ASTM B729	ASTM B366/B366M-16

6. Alloy20 source URL:

<https://www.hitealloy.com/product/alloy-20-ns143.html>