

Nickel Alloy Material Grade Composition Chart

Name	ASTM#	Grade	UNS#	Nominal Composition
Alloy 200	Forging B564	A200	N02200	C-.15max Cr-.01max Ni-99min Cu-.25max Fe-.4max
Alloy 200	Bar B160	A200	N02200	C-.15max Cr-.01max Ni-99min Cu-.25max Fe-.4max
Alloy 400 *	Forging B564	A400	N04400	Ni-63min Cu-28-34 Fe-2.5max
Alloy 400 *	Bar B164	A400	N04400	Ni-63min Cu-28-34 Fe-2.5max
Alloy 600	Forging B564	A600	N06600	Ni-72min Cr-14-17 Fe-6-10 Cu-.5max
Alloy 600	Bar B166	A600	N06600	Ni-72min Cr-14-17 Fe-6-10 Cu-.5max
Alloy 625	Forging B564	A625	S32100	Ni-58min Cr-20-23 Fe-5max Cb+-3.75-4.15 Al-.4max Ti-.4max
Alloy 625	Bar B564	B446	S32109	Ni-58min Cr-20-23 Fe-5max Cb+-3.75-4.15 Al-.4max Ti-.4max
Alloy 800	Forging B564	A800	N08800	Ni-30-35 Cr-19-23 Fe-39.5min Al-.15-.60 Ti-.15-.60 C-.10max
Alloy 800	Bar B408	B408	N08800	Ni-30-35 Cr-19-23 Fe-39.5min Al-.15-.60 Ti-.15-.60 C-.10max
Alloy 800H	Forging B564	A800H	N08810	Ni-30-35 Cr-19-23 Fe-39.5min Al-.15-.60 Ti-.15-.60 C-.05-.10
Alloy 800H	Bar B408	A800H	N08810	Ni-30-35 Cr-19-23 Fe-39.5min Al-.15-.60 Ti-.15-.60 C-.05-.10
Alloy 800HT	Forging B564	A800HT	N08811	Ni-30-35 Cr-19-23 Fe-39.5min Al-.15-.60 Ti-.15-.60 Al+Ti-.85-1.2 C-.06-.10
Alloy 800HT	Bar B408	A800HT	N08811	Ni-30-35 Cr-19-23 Fe-39.5min Al-.15-.60 Ti-.15-.60 Al+Ti-.85-1.2 C-.06-.10
Alloy 825	Forging B564	A825	N08825	Ni-38-46 Cr-19.5-23.5 Mo-2.5-3.5 Fe-22min Cu-1.5-3 Al-.2max Ti-.6-1.2 C-.05
Alloy 825	Bar B425	A825	N08825	Ni-38-46 Cr-19.5-23.5 Mo-2.5-3.5 Fe-22min Cu-1.5-3 Al-.2max Ti-.6-1.2 C-.05

Name	ASTM#	Grade	UNS#	Nominal Composition
B-2	Forging B335	Alloy B-2	N10665	Cr-1max Mo-26-30 Fe-2max Co-1max
B-2	Bar B335	Alloy B-2	N10665	Cr-1max Mo-26-30 Fe-2max Co-1max
C-22 ®	Forging B564	AC22	N06022	Cr-20-22.5 Mo-12.5-14.5 Fe-2-6 W-2.5-3.5 Co-2.5max V-.35max (Nickel remnant)
C-22 ®	Bar B574	AC22	N06022	Cr-20-22.5 Mo-12.5-14.5 Fe-2-6 W-2.5-3.5 Co-2.5max V-.35max (Nickel remnant)

* Alloy 400 can also be furnished to Federal Specifications **QQN-281**

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