

Monel K500(UNS N05500)

Specifications

Item	Chemical Composition (%)								
Monel K500	C	Ti	Mn	Si	S	Al	Ni	Fe	Cu
	≤0.25	0.35~0.85	≤1.5	≤0.5	≤0.01	2.3~3.15	≥63.0	≤2.0	27.0-33.0
	Standard								
	Sheet/Plate		Round bar/Wire		Pipe		Tube		
	QQ-N-286		ASME SB-865 AMS 4676 QQ- N-286		-		-		

Properties

Alloy K-500(UNS N05500) is a nickel-copper alloy, precipitation hardenable through additions of aluminum and titanium. This alloy retains the excellent corrosion resistant characteristics of 400 and has enhanced strength and hardness after precipitation hardening when compared with 400.

Alloy K-500(UNS N05500) has approximately three times the yield strength and double the tensile strength when compared with 400. K-500 can be further strengthened by cold working before the precipitation hardening.