

The material should match following specifications. For NICKEL ALLOY 500

- Chemical composition : The chemical composition in weight percent shall meet the requirements for UNS N05500 as listed in the Table Below :

	C	Mn	Cu	Si	S	Ni	Al	Ti	Fe
Min	---	---	---	---	---	63.0	2.30	0.35	---
Max	0.18	1.50	Bal	0.50	0.010	70.0	3.15	0.85	2.00

- Mechanical Properties :

Bar Diameter		Yield Strength Ksi (MPa)	Tensile Strength Ksi (MPa)	Elongation	Hardness Rockwell C
	Max.	---	---	---	35.0
1" - 4"	Min.	85.0 (586)	130.0 (896)	20%	30.0

Kaushik Maniar.