

MANIAR SPECIFICATION

Stainless steel 17 – 4 PH Condition DH1150 min Yield 105ksi

Heat Treat Requirements:

Process Step	Temperature Range	Time at Temperature	Atmosphere
Solution Anneal	1900°F=25°F (1040°C = 15°C)	½ hour-see notes 1,2 and 3	Inert gas or air
Precipitation Hardening	1150°F=25°F (620°C = 15°C)	4 hours minimum see notes 1 & 3	Inert gas or air
Precipitation Hardening	1150°F=25°F (620°C = 15°C)	4 hours minimum see note 1	Inert gas or air

MATERIAL PROPERTIES

Chemical Composition : The Chemical composition in accordance to UNS number S17400:

	C	Mn	Ni	Cu	Nb	Cr		Si	P	S
Min.	---	---	3.00	3.00	0.15	15.0		---	---	---
Max.	0.07	1.0	5.00	5.00	0.45	17.5		1.00	0.030	0.030

Mechanical Properties: The mechanical properties in Accordance with ASTM A370:

	Yield Strength Ksi (MPa)	Tensile Strength ksi (MPa)	Elongation	Reduction	Hardness Rockwell C
Min.	105.0 (724)	135.0 (931)	16%	45%	28
Max.	---	160.0 (1103)	---	---	33