



Advantage:

Precipitation hardening stainless steels have an advantage that other steels cannot replace: the manufacturing of highly elastic parts with difficult and complex shape. It can be solution treated to obtain a lower hardness, and after a complicated shaping work, then aging hardening is performed at not too high heating temperature to obtain high elasticity.

Applications:

Medical equipment
CNC machine tools
Shafts
Instrument parts
Fasteners
Auto spare parts

Alloy	UNS	Chemical Composition %							
		C	Si	Mn	Cu	Mo	Ni	Cr	Other
Martensitic									
17-4PH, SUS630	S17400	0.07	1.00	1.00	3.0-5.0	-	3.00-5.00	15.5-17.5	Nb: 0.15-0.45
15-5PH, XM-12	S15500	0.07	1.00	1.00	2.5-4.5	-	3.50-5.50	14.0-15.5	Nb: 0.15-0.45
PH 13-8 Mo, XM-13	S13800	0.05	0.10	0.20	-	2.0-3.0	7.50-8.50	12.3-13.2	N: 0.01. Al: 0.9-1.35
Custom 455, XM-16	S45500	0.03	0.50	0.50	1.5-2.5	0.50	7.50-9.50	11.0-12.5	Ti: 0.80-1.40, Nb: 0.1-0.5
Semi-Austenitic									
17-7PH, SUS 631	S17700	0.09	1.00	1.00			6.50-7.75	16.0-18.0	Al: 0.75-1.50
PH15-7Mo, SUS632	S15700	0.09	1.00	1.00		2.0-3.0	6.50-7.50	14.0-16.0	Al: 0.75-1.50
Alloy 350, SUS 633	S35000	0.07-0.11	0.50	0.5-1.25		1.5-3.2	4.0-5.0	16.0-17.0	N: 0.07-0.13
Austenitic									
A-286, SUS 660	S66286	0.08	1.00	2.0	V0.1-0.5	1.0-1.5	24.0-27.0	13.5-16.0	Al:0.35, Ti:1.9-2.35

Heat Treatment

TH	TH510, TH1050, TH1065R, TH700, TH560, TH800A, TH800B...per request
RH	RH900, RH1020, RH1050...
CH	CH900, CH480, CH500...

	Size	Condition
Round Bars	Ø 1 mm to Ø 100 mm, Length 1000-4000mm	Precision Ground, tolerance +/- 0.02mm