17-4PH fasteners are primarily used for their superior high strength. This precipitation hardened stainless steel alloy offers up to 4x the strength of 316 steel and 2.5x the strength of Super Duplex 2507. 17-4PH bolts are available in several different heat treatments (as well as annealed condition) which provide different levels of tensile and yield strength, as well as elongation and hardness. 17-4PH maintains its strength to 600°F.

Properties

Ultimate Tensile Strength	160-210 ksi
Yield Strength at 0.2%	150-200 ksi
Elongation %	7-11
Usable Temperature Limit	600˚F / 316˚C

Key Benefits

- Extreme high strength stainless steel alloy.
- 4x stronger than 316 stainless
- 2.5x stronger than Super Duplex 2057
- Usable to 600°F
- Available in several heat treatments for different levels of strength

Chemistry & Specifications

17-4PH	Fe	Cr	Ni	Cu	Mn	Si	Mo	Nb+Ta	C	P	S
Min %	-	15.0	3.0	3.0	-	-	-	-	-	-	-
Max %	Bal	17.5	5.0	5.0	1.0	1.0	0.50	0.45	0.07	0.04	0.03

SPECIFICATIONS: UNS S17400, AISI 630, ASTM A564-630, Werkstoff 1.4542, AMS 5604 Sheet, Strip and Plate, ASTM A 693 Plate

Material Data

17-4 PH - Tensile Data vs Aged Condition

Aged Condition	Ultimate Tensile (min. ksi)	Yield Strength at 0.2% Offset (min. ksi)	Elongation %	Hardness Rc (Rockwell C, min)
H900	195	170	10	40
H925	175	155	10	38
H1025	155	145	12	35
H1075	145	125	13	32
H1100	140	115	14	31
H1150	135	105	16	28
H1150-M	115	75	18	24
H1150-D	125	105	16	24/33 max

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