

Quality	410
According to Standard	ASTM A 276 - 06
Number	-



Comparable Standards	EN	W.N.	BS
	X12Cr13	1.4006	403S17

Chemical Analysis	C %	Mn %	Si %	P%	Cr %	Ni %	Mo %	S%	Other Elements
	0.08 to 0.15	1.00	1.00	0.040 max.	11.5 to 13.5	—	—	0.030 max.	—

Hot Work and Heat Treatment

Type ^A	Heat Treatment Temperature ^B °F (°C), min	Quenchant	Hardness HRC, min
410	1750 (955)	Air	35

Mechanical Properties at Room Temperature

Finish	Condition	Diameter or Thickness in. (mm) over 1 1/2 (38.10) to 1 3/4 (44.45)	Tensile Strength, min		Yield Strength, ^A min		Elongation in 2 in. (50 mm) ^B or 4D min%	Reduction of Area, min, %	Brinell Hardness, max
			ksi	Mpa	ksi	Mpa			
Hot Finished or Cold Finished	A	all	70	480	40	275	20	45	-
		all	70	480	40	275	16	45	-
Hot Finished or Cold Finished	T	all	100	690	80	550	15	45	-
		all	100	690	80	550	12	40	-
Hot Finished or Cold Finished	H	all	120	830	90	620	12	40	-
		all (rounds only)	120	830	90	620	12	40	-