

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	Quench	Hardness					
			°F (°C), min		HRC, min					
		410	1750 (955)	Air	35					
Mechanical Properties at Room Temperature										
Finish	Condition	Diameter or Thickness	Tensile Strength, min		Yield Strength, ^A min		Elongation in 2 in. (50 mm) ^B or 4D min%	Reduction of Area, min, %	Brinell Hardness, max	
		in. (mm)	ksi	Mpa	ksi	Mpa				
		over 1 1/2 (38.10) to 1 3/4 (44.45)	125	860	100	690	18	45	-	
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		