

Quality	420
According to Standard	ASTM A 276 - 06
Number	-



Comparable Standards	EN	W.N.	BS
	X20Cr13	1.4021	420S97

Chemical Analysis	C %	Mn %	Si %	P%	Cr %	Ni %	Mo %	S%	Other Elements
	0.15 min	1.00	1.00	0.040 max.	12.0 to 14.0	—	—	0.030 max.	—

### Hot Work and Heat Treatment

Type <sup>A</sup>	Heat Treatment Temperature <sup>B</sup>	Quenchant	Hardness
	°F (°C), min		HRC, min
420	1825 (995)	Air	50

### Mechanical Properties at Room Temperature

Finish	Condition	Diameter or Thickness in. (mm)	Tensile Strength, min		Yield Strength, <sup>A</sup> min		Elongation in 2 in. (50 mm) <sup>B</sup> or 4D min%	Reduction of Area, min, %	Brinell Hardness, max
			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	-	-	-	-	-	-	241
		all	-	-	-	-	-	-	255