

## ASTM A193 B16 (Cr- Mo -V )

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	Chemical Properties								
	C	Mn	P	S	Si	Cr	Mo	Al	V
	0.36-0.47	0.45-0.70	0.035 Max	0.04 Max	0.15-0.35	0.80-1.15	0.50-0.65	0.015Max	0.25-0.35
Physical Properties	Dia	Minimum	Tensile	Yield	Elongatio n in	Reduction of	Hardness		
		Temperat ure	Strength	Strength, min.	4D	Area			
		° F (°C)	min, ksi ( MPa)	0.2% offset, Ksi ( MPa)	min %	min %			
	2 1/2" and under	1200(650)	125(860)	105(725)	18	50	321HB or 35 HRC		
	over 2 1/2" to 4"	1200(650)	110(760)	95(655)	17	45	302HB or 33 HRC		
	over 4" to 7"	1200(650 )	100(690)	85(586)	16	45	227HB or 29 HRC		