

<b>Quality</b>	<b>F9</b>								
<b>According to Standard</b>	ASTM A 182/A 182M - 10a								
<b>Number</b>	-								
<b>Comparable Standards</b>	<b>EN</b>	<b>W.N.</b>	<b>BS</b>						
	1.7386	-	-						
<b>Chemical Analysis</b>	<b>C %</b>	<b>Mn %</b>	<b>Si %</b>	<b>P%</b>	<b>Cr %</b>	<b>Ni %</b>	<b>Mo %</b>	<b>S%</b>	<b>Other Elements</b>
	0.15	0.30 to 0.60	0.50 to 1.00	0.030	8.0 to 10.0	-	0.90 to 1.10	0.030	-
<b>Hot Work and Heat Treatment Temperatures</b>									
<b>Grade</b>	<b>Heat Treat Type</b>	<b>Austenitizing/Solubilizing Temperature, Minimum or Range, °F [°C]<sup>A</sup></b>		<b>Cooling Media</b>	<b>Quenching Cool Below °F [°C]</b>	<b>Tempering Temperature, Minimum or Range, °F [°C]</b>			
<b>Low Alloy Steels</b>									
F 9	anneal	1750 [955]		furnace cool	-	-			
	normalize and temper	1750 [955]		air cool	-	1250 [670]			
<b>Mechanical Properties at Room Temperature</b>									
<b>Grade Symbol</b>	<b>Tensile Strength, min, ksi [Mpa]</b>	<b>Yield Strength, min, ksi [Mpa]</b>		<b>Elongation in 2 in, [50 mm] of 4D, min, %</b>		<b>Reduction of Area, min, %</b>	<b>Brinell Hardness Number, HBW</b>		
F9	85 [585]	50 [380]		20		40	179 - 217		