

Quality	F9
According to Standard	ASTM A 182/A 182M - 10a
Number	-



Comparable Standards	EN	W.N.	BS
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1.7386	-	-
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Chemical Analysis	C %	Mn %	Si %	P%	Cr %	Ni %	Mo %	S%	Other Elements
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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	—
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Hot Work and Heat Treatment

Grade	Heat Treat Type	Austenitizing/Solutioning Temperature,	Cooling Media	Quenching Cool Below °F [°C]	Tempering Temperature, Minimum or Range,
Low Alloy Steels					
F 9	anneal	1750 [955]	furnace cool	-	-
	normalize and temper	1750 [955]	air cool	-	1250 [670]

Mechanical Properties at Room Temperature

Grade Symbol	Tensile Strength, min, ksi [Mpa]	Yield Strength, min, ksi [Mpa]	Elongation in 2 in, [50 mm] of 4D, min, %	Reduction of Area, min, %	Brinell Hardness Number, HBW
F9	85 [585]	50 [380]	20	40	179 - 217