

Quality	4145
According to Standard	ASTM A 29/A 29M
Number	-



Comparable Standards	EN	W.N.	BS 970	DIN
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Chemical Analysis	C % max	Mn %	Si %	Cr %	Ni %	Mo %	S%
	0.43 - 0.48	0.75 - 1.00	0.15 - 0.35	0.80 - 1.10	-	0.15 - 0.25	0.040 max.
	P %						
	0.035 max.						

**Hot Work and Heat Treatment Temperatures**

Preheat Treatment °F (°C)	Austenitizing Temperature, °F (°C)		Austenitizing Time (minutes)	Quench Medium	Tempering Temperature, °F (°C)	Minimum Hardness, RC
	Salt Bath	Controlled Atmosphere Furnaces				
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**Mechanical Properties at Room Temperature**

Condition	Ø	Rp0,2 min.	Rm	A min. %	KV min. J	Max. Brinell Hardness	
	mm.	N/mm2	N/mm2			Annealed BHN	Cold Drawn BHN
	-	-	-	-	-	-	-