



TABLE 4 Continued

Type	Condition	Suggested Hardening and/or Aging Treatment ^{A,C,D}			Applicable Thickness, in. & Test Direction ^E	Tensile Strength, min		Yield Strength, min ^F		Elongation in 2 in. [50 mm] or 4D, min %	Hardness ^G		Impact Charpy-V, min			
		Temp. °F [°C]	Time, h	Quench ^H		ksi	[MPa]	ksi	[MPa]		Rockwell C, min	Brinell, min	ft-lbf	J		
XM-13	H1075	1075 [580]	4.0	air cool	Up to 12 in. incl [300 mm] (T)					8	27			10	14	
					Up to 12 in. incl [300 mm] (L)		145	[1000]	125	[860]	13	45	32	311	20	27
					Up to 12 in. incl [300 mm] (T)						9	28			15	20
	H1100	1100 [595]	4.0	air cool	Up to 12 in. incl [300 mm] (L)		140	[965]	115	[795]	14	45	31	302	25	34
					Up to 12 in. incl [300 mm] (T)						10	29			15	20
					Up to 12 in. incl [300 mm] (T)						16	50	28	277	30	41
	H1150	1150 [620]	4.0	air cool	Up to 12 in. incl [300 mm] (L)		135	[930]	105	[725]	11	30			20	27
					Up to 12 in. incl [300 mm] (T)											
					Up to 12 in. incl [300 mm] (T)						18	55	24	255	55	75
	H1150M	1400 [760] for 2 h, air cool plus 1150 [620] for 4 h, air cool	4.0	air cool plus	Up to 12 in. incl [300 mm] (L)		115	[795]	75	[515]	14	35			35	47
Up to 12 in. incl [300 mm] (T)																
Up to 12 in. incl [300 mm] (T)										10	45	45	430	...	...
XM-16	H950	950 [510]	4.0	air cool	Up to 12 in. incl [300 mm] (L)		220	[1515]	205	[1415]	10	45	43	400	...	...
					Up to 12 in. incl [300 mm] (T)											
					Up to 12 in. incl [300 mm] (L)		205	[1415]	190	[1310]	10	50	40	400	...	...
	H1025	1025 [550]	4.0	air cool	Up to 12 in. incl [300 mm] (L)		185	[1280]	175	[1210]	10	40				
					Up to 12 in. incl [300 mm] (T)											
					Up to 12 in. incl [300 mm] (L)		175	[1210]	165	[1140]	12	50	40	372	...	...
	H1050	1050 [565]	4.0	air cool	Up to 12 in. incl [300 mm] (L)		175	[1210]	165	[1140]	12	50	40	372	...	...
					Up to 12 in. incl [300 mm] (T)											
					Up to 12 in. incl [300 mm] (L)		150	[1035]	135	[930]	14	50	34	313	...	...
	H1100	1100 [595]	4.0	air cool	Up to 12 in. incl [300 mm] (L)		135	[930]	90	[620]	14	50	30	283	...	...
Up to 12 in. incl [300 mm] (T)																
Up to 12 in. incl [300 mm] (L)						125	[860]	85	[585]	16	55	26	259	...	...
S45503	H900	900 [480]	4.0	air cool	Up to 12 in. incl [300 mm] (L)		235	[1620]	220	[1515]	8	30	47	444	...	...
					Up to 6 in. incl [150 mm] (L)		220	[1515]	205	[1415]	10	40	44	415	...	...
					Up to 6 in. incl [150 mm] (L)		205	[1415]	185	[1275]	10	40	40	363	...	...
	H950	950 [510]	4.0	air cool	Up to 12 in. incl [300 mm] (L)		235	[1620]	220	[1520]	8	30	47	444	...	...
					Up to 6 in. incl [150 mm] (L)		220	[1515]	205	[1415]	10	40	44	415	...	...
					Up to 6 in. incl [150 mm] (L)		205	[1415]	185	[1275]	10	40	40	363	...	...
	H1000	1000 [540]	4.0	air cool	Up to 12 in. incl [300 mm] (L)		235	[1620]	220	[1520]	8	30	47	444	...	...
					Up to 6 in. incl [150 mm] (L)		220	[1515]	205	[1415]	10	40	44	415	...	...
					Up to 6 in. incl [150 mm] (L)		205	[1415]	185	[1275]	10	40	40	363	...	...