

Heat Treatment <sup>A</sup>
Age Hardening
ents After
Requireme
Test
Mechanical
TABLE 4 M

	C. Control L													
Condition	Transparent Tra	Hardening a eatment <sup>B,C,</sup>	Suggested Hardening and/or Aging Treatment <sup>B,C,D</sup>	Applicable Thickness,	Tensile Strength, min	ength, min	Yield Strength, min <sup>F</sup>			Reduction	Hardness <sup>G</sup>	ess o	Impact Charpy-V, min	py-V, min
	Temp, °F [°C]	Time, h	Quench <sup>H</sup>	in. & Test Direction <sup>E</sup>	ks:	[MPa]	ksi	[MPa]		min, %	Rockwell C, min	Brinell, min	ft·lbf	7
006H	900 [480]	1.0	air cool	Up to 3 in. incl [75 mm] (L) Over 3 in. [75 mm] to 8 in. incl [200 mm] (T)	190	[1310]	170	[1170]	10	35	40	388	:	:
H925	925 [495]	4.0	air cool	Up to 3 in. incl [75 mm] (L) Over 3 in. [75 mm] to 8 in. incl [200 mm] (T)	170	[1170]	155	[1070]	10	38	38	375	5	8.9
H1025	1025 [550]	4.0	air cool	Up to 8 in. incl [200 mm] (L)	155	[1070]	145	[1000]	12	45	32	331	15	20
H1075	1075 [580]				145	[1000]	125	[860]	13	45	32	311	20	27
H1100	1150 [620]				135	[965]	105	[795]	4 9	45	31	302	30 52	34
H1150M	1400 [760] for 2 h, air cool plus 1150 [620] for 4 h, air cool	or 2 h, air cc r 4 h, air co	snld loc		115	[795]	75	[520]	8 2	22	24	255	22	75
H1150D	1150 [620] for 4 h, air cool plus 1150 [620] for 4 h, air cool	r 4 h, air cc r 4 h, air co	sold plus		125	[860]	105	[725]	16	20	24 33 max	255 311 max	30	41
RH950	1750 °F [955 °C] for not less than 10 min, but not more than 1 h, cool rapidly to room temperature. Cool within 24 h to minus 100 ± 10 °F [75 °C], hold not less than 8 h. Warm in air to room temperature. Heat to 950 °F [510 °C], hold 1 h, air cool.	ocj for not not more the om temperat om temperat on minus 100 not less the coroom temperative records on room temperative records on the records of the records o	_	Up to 4 in. incl. [100 mm] (L)	185	[1280]	150	[1030]	ω	10	11	388	i	:
TH1050	Alternative treatment: 1400 °F [760 °C] hold 90 min, cool to 55 ± 5 °F [15 ± 3 °C] within 1 h. Hold not less than 30 min, heat to 1050 °F [565 °C] hold for 90 min, air cool.	eatment: 14 1 90 min, co 3 within 1 h min, heat to for 90 min,	2	Up to 6 in. incl [150 mm] (L)	170	[1170]	140	[965]	Q	25	38	352	:	:
RH950	Same as Type 631	oe 631		Up to 4 in. incl [100 mm] (L)	200	[1380]	175	[1210]	7	25	:	415	÷	:
TH1050	Same as Type 631	e 631		Up to 6 in. incl [150 mm] (L)	180	[1240]	160	[1100]	8	25	:	375	:	:
H 1000	1750 [955] for not less than 10 min, but not more than 1 h. Water quench. Cool to not higher than minus 100 °F [75 °C]. Hold for not less than 3 h. Temper at 1000 °F [540 °C], holding for not less than 3 h.	or not less than 1 h. W. I to not high [75 °C]. He Temper at ding for not	han 10 min, Vater ner than old for not 1000 °F less than		170	[1170]	155 5	[1070]	2	52	37	341	:	i:
H950	950 (510)	0.5	air cool		190	[1310]	170	[1170]	8	25	39	363	::	:
H1000	1000 [540]	0.5	air cool		180	[1240]	160	[1100]	8	30	37	352	:	:
H1050 H900	1050 [565] 900 [480]	1.0	air cool air cool	Up to 12 in. incl [300 mm] (L) Up to 12 in. incl [300 mm] (T)	190	[1170] [1310]	150	[1170]	01 10	35 15	40	388		: :
H925	925 [495]	4.0	air cool	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	170	[1170]	155	[1070]	10	38	38	375	ر :	6.8
H1025	1025 [550]	4.0	air cool	Up to 12 in. incl [300 mm] (L)	155	[1070]	145	[1000]	12	45	35	331	15	20