

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Notes	Min. Temp., °C (6)	Min. Tensile Str., MPa	Min. Yield Str., MPa	Max. Use Temp., °C	Basic Allowable Stress, S, MPa, at Metal Temperature, °C [Notes (1) and (4b)]								
						Min. Temp. to 40	65	100	125	150	175	200	225	250
175	...	-198	725	310	427	207	207	207	207	207	207	204	202	199
176	...	-198	725	310	427	207	207	207	207	207	207	204	202	199
177	...	-198	725	310	427	207	207	207	207	207	207	204	202	199
178	(9)(64)	-198	827	414	649	276	276	276	274	273	272	270	269	267
179	(74)	-198	758	352	427	234	234	234	234	234	234	234	234	234
180	(74)	-198	758	352	427	234	234	234	234	234	234	234	234	234
181	...	-198	758	352	427	234	234	234	234	234	234	234	234	234
182	...	-198	758	352	427	234	234	234	234	234	234	234	234	234
183	...	-198	758	310	899	207	207	207	207	207	207	207	207	207
184	(74)	-198	758	310	899	207	207	207	207	207	207	207	207	207
185	...	-198	750	380	427	250	231	209	200	193	187	181	176	172
186	...	-198	750	380	427	250	231	209	200	193	187	181	176	172
187	...	-198	750	380	427	250	231	209	200	193	187	181	176	172
188	(9)	-198	414	103	316	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
189	(9)	-198	379	103	316	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
190	(13)	-198	483	172	482	115	106	99.7	96.2	93.6	91.9	90.9	90.4	90.4
191	(9)	-198	450	170	899	115	115	115	115	115	115	115	115	115
192	(9)	-198	450	170	899	115	115	115	115	115	115	115	115	115
193	(9)	-198	515	205	816	138	138	138	138	138	138	138	138	138
194	...	-198	517	193	427	129	129	129	129	129	129	129	129	129
195	...	-198	586	207	538	138	138	138	138	138	138	138	138	138
196	(9)	-198	585	240	538	161	161	161	161	161	161	161	161	161
197	...	-198	585	240	482	160	160	160	160	160	160	160	160	160
198	...	-198	586	240	482	160	160	160	160	160	160	160	160	160
199	...	-198	621	241	538	161	161	161	161	161	161	161	161	161
200	...	-198	586	241	427	161	161	161	161	161	161	161	157	154
201	...	-198	648	276	427	184	184	184	184	184	177	171	166	162
202	...	-198	552	276	510	184	182	177	174	171	168	165	164	162
203	(9)	-198	586	241	427	161	161	161	161	161	161	154	149	144
204	...	-198	621	276	899	184	184	184	184	184	184	184	180	175
205	(9)	-198	689	276	427	184	184	184	184	184	184	184	184	184

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Basic Allowable Stress, S , MPa, at Metal Temperature, °C [Notes (1) and (4b)]												
	275	300	325	350	375	400	425	450	475	500	525	550	575
175	197	193	190	188	186	184	182	180	...	...	...	...	...
176	197	193	190	188	186	184	182	180	...	...	...	...	...
177	197	193	190	188	186	184	182	180	...	...	...	...	...
178	265	262	260	257	255	252	251	249	247	245	242	215	194
179	234	234	234	234	234	234	234	234	...	...	...	...	...
180	234	234	234	234	234	233	231	230	...	...	...	...	...
181	234	234	234	234	234	233	231	230	...	...	...	...	...
182	234	234	234	234	234	233	231	230	...	...	...	...	...
183	207	207	203	199	197	196	195	195	195	195	195	195	183
184	207	207	203	199	197	196	195	195	195	195	195	195	183
185	169	165	163	161	159	157	156	155	...	...	...	...	...
186	169	165	163	161	159	157	156	155	...	...	...	...	...
187	169	165	163	161	159	157	156	155	...	...	...	...	...
188	68.9	68.9	68.9	...	...	...	...	...	...	...	...	...	...
189	68.9	68.9	68.9	...	...	...	...	...	...	...	...	...	...
190	90.4	90.4	90.4	90.4	89.8	89.0	88.0	79.7	59.9	55.2	...	...	...
191	115	115	113	110	108	105	104	102	100	98.6	97.1	95.9	91.8
192	115	115	113	110	108	105	104	102	100	98.7	97.1	96.1	94.1
193	138	138	138	138	138	138	138	138	138	138	137	131	108
194	129	129	127	125	122	121	119	119	...	...	...	...	...
195	138	135	134	132	131	130	129	128	128	127	127	126	...
196	161	161	161	161	161	160	159	158	157	156	155	153	...
197	160	160	160	160	160	160	160	160	160	160	...	...	...
198	160	160	160	160	160	160	160	160	160	160	...	...	...
199	160	158	156	154	153	152	151	150	149	136	132	130	...
200	151	148	146	143	141	138	136	136	...	...	...	...	...
201	158	155	152	149	146	144	141	141	...	...	...	...	...
202	161	160	159	158	156	136	102	63.8	33.5	17.0	13.0	...	...
203	140	137	135	133	132	131	129	128	...	...	...	...	...
204	170	166	163	160	158	156	154	153	153	152	151	151	151
205	184	184	184	184	182	180	178	178	...	...	...	...	...

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Basic Allowable Stress, S , MPa, at Metal Temperature, °C [Notes (1) and (4b)]												
	600	625	650	675	700	725	750	775	800	825	850	875	900
175	...	...	...	...	...	...	...	...	...	...	...	...	...
176	...	...	...	...	...	...	...	...	...	...	...	...	...
177	...	...	...	...	...	...	...	...	...	...	...	...	...
178	156	136	91.0	...	...	...	...	...	...	...	...	...	...
179	...	...	...	...	...	...	...	...	...	...	...	...	...
180	...	...	...	...	...	...	...	...	...	...	...	...	...
181	...	...	...	...	...	...	...	...	...	...	...	...	...
182	...	...	...	...	...	...	...	...	...	...	...	...	...
183	153	128	107	89.7	74.7	61.9	50.8	41.1	32.6	25.2	18.9	13.8	10.2
184	153	128	107	89.7	74.7	61.9	50.8	41.1	32.6	25.2	18.9	13.8	10.2
185	...	...	...	...	...	...	...	...	...	...	...	...	...
186	...	...	...	...	...	...	...	...	...	...	...	...	...
187	...	...	...	...	...	...	...	...	...	...	...	...	...
188	...	...	...	...	...	...	...	...	...	...	...	...	...
189	...	...	...	...	...	...	...	...	...	...	...	...	...
190	...	...	...	...	...	...	...	...	...	...	...	...	...
191	75.7	62.6	50.6	41.2	33.6	27.7	22.6	18.3	15.0	11.9	9.03	7.35	5.86
192	85.5	69.3	56.8	46.8	38.6	31.5	25.5	20.6	17.1	13.8	10.2	7.98	6.20
193	85.0	64.4	44.8	30.0	15.5	11.3	8.82	6.98	6.43	5.00	...	...	...
194	...	...	...	...	...	...	...	...	...	...	...	...	...
195	...	...	...	...	...	...	...	...	...	...	...	...	...
196	...	...	...	...	...	...	...	...	...	...	...	...	...
197	...	...	...	...	...	...	...	...	...	...	...	...	...
198	...	...	...	...	...	...	...	...	...	...	...	...	...
199	...	...	...	...	...	...	...	...	...	...	...	...	...
200	...	...	...	...	...	...	...	...	...	...	...	...	...
201	...	...	...	...	...	...	...	...	...	...	...	...	...
202	...	...	...	...	...	...	...	...	...	...	...	...	...
203	...	...	...	...	...	...	...	...	...	...	...	...	...
204	117	96.2	79.3	65.6	54.4	45.0	37.2	30.6	25.1	20.5	16.5	13.0	9.8
205	...	...	...	...	...	...	...	...	...	...	...	...	...

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Nominal Composition	Product Form	Spec. No.	Type/Grade	UNS No.	Class/Condition/ Temper	Size, mm	P-No. (5)
206	54Ni-16Mo-15Cr	Rod & bar	B574	...	N10276	Sol. ann.	All	43
207	62Ni-22Mo-15Cr	Rod & bar	B574	...	N10362	Sol. ann.	All	43
208	60Ni-22Cr-9Mo-3.5Cb	Rod & bar	B446	1	N06625	Annealed	>100, ≤250	43
209	60Ni-22Cr-9Mo-3.5Cb	Rod & bar	B446	1	N06625	Annealed	≤100	43
210	57Ni-22Cr-14W-2Mo-La	Rod & bar	B572	...	N06230	Sol. ann.	All	43
211	59Ni-23Cr-16Mo	Rod & bar	B574	...	N06059	Sol. ann.	All	43
212	59Ni-23Cr-16Mo-1.6Cu	Rod & bar	B574	...	N06200	Sol. ann.	All	43
213	65Ni-29.5Mo-2Fe-2Cr	Rod & bar	B335	...	N10675	Sol. ann.	All	44
214	33Cr-31Ni-32Fe-1.5Mo-0.6Cu-N	Rod	B649	...	R20033	Sol. ann.	...	45
215	53Ni-17Mo-16Cr-6Fe-5W	Castings	A494	CW12MW	N30002	...	...	...
216	56Ni-19Mo-18Cr-2Fe	Castings	A494	CW6M	N30107	...	...	...
217	59Ni-22Cr-14Mo-4Fe-3W	Castings	A494	CX2MW	N26022	Sol. ann.	...	43

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Notes	Min. Temp., °C (6)	Min. Tensile Str., MPa	Min. Yield Str., MPa	Max. Use Temp., °C	Basic Allowable Stress, S, MPa, at Metal Temperature, °C [Notes (1) and (4b)]								
						Min. Temp. to 40	65	100	125	150	175	200	225	250
206	...	-198	689	283	677	188	188	188	188	188	188	188	188	187
207	...	-198	725	310	427	207	207	207	207	207	207	204	202	199
208	(9)(64)(70)	-198	758	345	649	230	230	230	230	230	230	230	230	230
209	(9)(64)(70)	-198	827	414	649	276	276	276	274	273	272	270	269	267
210	...	-198	758	310	899	207	207	207	207	207	207	207	207	207
211	...	-198	689	310	427	207	207	207	207	207	207	207	207	206
212	...	-198	689	310	427	207	207	207	207	207	207	207	207	200
213	...	-198	758	352	427	234	234	234	234	234	234	234	234	234
214	...	-198	750	380	427	250	231	209	200	193	187	181	176	172
215	(9)(44)	-198	496	276	538	165	165	165	165	165	165	165	165	165
216	(9)	-198	496	276	538	165	165	165	165	165	165	165	165	165
217	(9)	-198	552	310	260	184	184	184	184	184	184	184	184	184

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Basic Allowable Stress, <i>S</i> , MPa, at Metal Temperature, °C [Notes (1) and (4b)]												
	275	300	325	350	375	400	425	450	475	500	525	550	575
206	183	177	172	169	165	162	159	157	156	155	154	143	118
207	197	193	190	188	186	184	182	180	...	...	...	...	...
208	230	230	230	230	230	230	230	228	227	225	222	215	194
209	265	262	260	257	255	252	251	249	247	245	242	215	194
210	207	207	203	199	197	196	195	195	195	195	195	195	183
211	202	197	192	188	184	180	176	176	...	...	...	...	...
212	194	188	184	180	177	175	174	173	...	...	...	...	...
213	234	234	234	234	234	233	231	230	...	...	...	...	...
214	169	165	163	161	159	157	156	155	...	...	...	...	...
215	165	165	165	165	165	165	165	165	165	165	165	157	...
216	165	165	165	165	165	165	165	165	165	165	165	157	...
217	184	...	...	...	...	...	...	...	...	...	...	...	...

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Basic Allowable Stress, <i>S</i> , MPa, at Metal Temperature, °C [Notes (1) and (4b)]												
	600	625	650	675	700	725	750	775	800	825	850	875	900
206	99.1	81.6	67.0	54.6	42.2	...	...	...	...	...	...	...	...
207	...	...	...	...	...	...	...	...	...	...	...	...	...
208	156	136	91.0	...	...	...	...	...	...	...	...	...	...
209	156	136	91.0	...	...	...	...	...	...	...	...	...	...
210	153	128	107	89.7	74.7	61.9	50.8	41.1	32.6	25.2	18.9	13.8	10.2
211	...	...	...	...	...	...	...	...	...	...	...	...	...
212	...	...	...	...	...	...	...	...	...	...	...	...	...
213	...	...	...	...	...	...	...	...	...	...	...	...	...
214	...	...	...	...	...	...	...	...	...	...	...	...	...
215	...	...	...	...	...	...	...	...	...	...	...	...	...
216	...	...	...	...	...	...	...	...	...	...	...	...	...
217	...	...	...	...	...	...	...	...	...	...	...	...	...

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Nominal Composition	Product Form	Spec. No.	Type/Grade	UNS No.	Class/Condition/ Temper	P-No. (5)	Notes	Min. Temp., °C (6)	Min. Tensile Strength, MPa	Min. Yield Strength, MPa
1	Ti	Smls. & wld. tube	B338	1	R50250	Annealed	51	...	-59	240	138
2	Ti	Smls. pipe	B861	1	R50250	Annealed	51	...	-59	240	138
3	Ti	Wld. pipe	B862	1	R50250	Annealed	51	...	-59	240	138
4	Ti	Smls. & wld. tube	B338	2	R50400	Annealed	51	...	-59	345	275
5	Ti	Smls. pipe	B861	2	R50400	Annealed	51	...	-59	345	275
6	Ti	Wld. pipe	B862	2	R50400	Annealed	51	...	-59	345	275
7	Ti	Smls. & wld. tube	B338	3	R50550	Annealed	52	...	-59	450	380
8	Ti	Smls. pipe	B861	3	R50550	Annealed	52	...	-59	450	380
9	Ti	Wld. pipe	B862	3	R50550	Annealed	52	...	-59	450	380
10	Ti-Pd	Smls. & wld. tube	B338	7	R52400	Annealed	51	...	-59	345	275
11	Ti-Pd	Smls. pipe	B861	7	R52400	Annealed	51	...	-59	345	275
12	Ti-Pd	Wld. pipe	B862	7	R52400	Annealed	51	...	-59	345	275
13	Ti-0.3Mo-0.8Ni	Smls. & wld. tube	B338	12	R53400	Annealed	52	...	-59	485	345
14	Ti-0.3Mo-0.8Ni	Smls. pipe	B861	12	R53400	Annealed	52	...	-59	485	345
15	Ti-0.3Mo-0.8Ni	Wld. pipe	B862	12	R53400	Annealed	52	...	-59	485	345
16	Ti	Plate, sheet, strip	B265	1	R50250	Annealed	51	...	-59	240	138
17	Ti	Plate, sheet, strip	B265	2	R50400	Annealed	51	...	-59	345	275
18	Ti	Plate, sheet, strip	B265	3	R50550	Annealed	52	...	-59	450	380
19	Ti-Pd	Plate, sheet, strip	B265	7	R52400	Annealed	51	...	-59	345	275
20	Ti-0.3Mo-0.8Ni	Plate, sheet, strip	B265	12	R53400	Annealed	52	...	-59	485	345
21	Ti	Fittings	B363	WPT1	R50250	Annealed	51	...	-59	240	138
22	Ti	Forgings	B381	F-1	R50250	Annealed	51	...	-59	240	138
23	Ti	Fittings	B363	WPT2	R50400	Annealed	51	...	-59	345	275
24	Ti	Forgings	B381	F-2	R50400	Annealed	51	...	-59	345	275
25	Ti	Fittings	B363	WPT3	R50550	Annealed	52	...	-59	450	380
26	Ti	Forgings	B381	F-3	R50550	Annealed	52	...	-59	450	380
27	Ti-Pd	Fittings	B363	WPT7	R52400	Annealed	51	...	-59	345	275
28	Ti-Pd	Forgings	B381	F-7	R52400	Annealed	51	...	-59	345	275
29	Ti-0.3Mo-0.8Ni	Fittings	B363	WPT12	R53400	Annealed	52	...	-59	485	345
30	Ti-0.3Mo-0.8Ni	Forgings	B381	F-12	R53400	Annealed	52	...	-59	485	345
31	Ti	Bar	B348	1	R50250	Annealed	51	...	-59	240	138
32	Ti	Bar	B348	2	R50400	Annealed	51	...	-59	345	275
33	Ti	Bar	B348	3	R50550	Annealed	52	...	-59	450	380
34	Ti-Pd	Bar	B348	7	R52400	Annealed	51	...	-59	345	275
35	Ti-0.3Mo-0.8Ni	Bar	B348	12	R53400	Annealed	52	...	-59	485	345
36	Ti	Castings	B367	C-2	R52550	...	51	(14)(44)	-59	345	275
37	Ti	Castings	B367	C-3	R52550	...	52	(14)(44)	-59	450	380
38	Ti-Pd	Castings	B367	C-7	R52700	...	51	(14)(44)	-59	345	275

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Basic Allowable Stress, S, MPa, at Metal Temperature, °C [Notes (1) and (4b)]												
	Max. Use Temp., °C	Min. Temp. to 40	65	100	125	150	175	200	225	250	275	300	325
1	316	80.3	73.8	62.4	55.5	49.4	43.4	38.3	33.9	30.2	27.3	25.2	23.7
2	316	80.3	73.8	62.4	55.5	49.4	43.4	38.3	33.9	30.2	27.3	25.2	23.7
3	316	80.3	73.8	62.4	55.5	49.4	43.4	38.3	33.9	30.2	27.3	25.2	23.7
4	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
5	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
6	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
7	316	149	139	124	113	102	93.3	84.7	77.7	70.7	66.2	61.7	57.7
8	316	149	139	124	113	102	93.3	84.7	77.7	70.7	66.2	61.7	57.7
9	316	149	139	124	113	102	93.3	84.7	77.7	70.7	66.2	61.7	57.7
10	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
11	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
12	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
13	316	161	156	148	139	130	123	116	111	106	104	101	98.3
14	316	161	156	148	139	130	123	116	111	106	104	101	98.3
15	316	161	156	148	139	130	123	116	111	106	104	101	98.3
16	316	80.3	73.8	62.4	55.5	49.4	43.4	38.3	33.9	30.2	27.3	25.2	23.7
17	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
18	316	149	139	124	113	102	93.3	84.7	77.7	70.7	66.2	61.7	57.7
19	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
20	316	161	156	148	139	130	123	116	111	106	104	101	98.3
21	316	80.3	73.8	62.4	55.5	49.4	43.4	38.3	33.9	30.2	27.3	25.2	23.7
22	316	80.3	73.8	62.4	55.5	49.4	43.4	38.3	33.9	30.2	27.3	25.2	23.7
23	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
24	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
25	316	149	139	124	113	102	93.3	84.7	77.7	70.7	66.2	61.7	57.7
26	316	149	139	124	113	102	93.3	84.7	77.7	70.7	66.2	61.7	57.7
27	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
28	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
29	316	161	156	148	139	130	123	116	111	106	104	101	98.3
30	316	161	156	148	139	130	123	116	111	106	104	101	98.3
31	316	80.3	73.8	62.4	55.5	49.4	43.4	38.3	33.9	30.2	27.3	25.2	23.7
32	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
33	316	149	139	124	113	102	93.3	84.7	77.7	70.7	66.2	61.7	57.7
34	316	115	108	98.3	90.7	83.0	77.5	72.0	67.3	62.7	58.7	54.7	50.7
35	316	161	156	148	139	130	123	116	111	106	104	101	98.3
36	260	115	106	92.7	85.3	78.0	72.2	66.3	61.5	56.7	52.0	...	...
37	260	149	139	124	113	102	93.3	84.7	77.7	70.7	65.3	...	...
38	260	115	106	92.7	85.3	78.0	72.2	66.3	61.5	56.7	52.0	...	...

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Nominal Composition	Product Form	Spec. No.	UNS No.	P-No. (5)	Notes	Min. Temp., °C (6)	Min. Tensile Strength, MPa	Min. Yield Strength, MPa	Max. Use Temp., °C
1	99.2Zr	Pipe & tube	B523	R60702	61	...	-59	379	207	371
2	99.2Zr	Pipe & tube	B658	R60702	61	...	-59	379	207	371
3	95.5Zr + 2.5Cb	Pipe & tube	B523	R60705	62	(73)	-59	552	379	371
4	95.5Zr + 2.5Cb	Pipe & tube	B658	R60705	62	(73)	-59	552	379	371
5	99.2Zr	Plate & sheet	B551	R60702	61	...	-59	379	207	371
6	95.5Zr + 2.5Cb	Plate & sheet	B551	R60705	62	(73)	-59	552	379	371
7	99.2Zr	Forgings & bar	B493	R60702	61	...	-59	379	207	371
8	99.2Zr	Forgings & bar	B550	R60702	61	...	-59	379	207	371
9	95.5Zr + 2.5Cb	Forgings & bar	B493	R60705	62	(73)	-59	483	379	371
10	95.5Zr + 2.5Cb	Forgings & bar	B550	R60705	62	(73)	-59	552	379	371

Table A-1M Basic Allowable Stresses in Tension for Metals (SI Units) (Cont'd)

Numbers in Parentheses Refer to Notes for Appendix A Tables; Specifications Are ASTM Unless Otherwise Indicated

Line No.	Basic Allowable Stress, S, MPa, at Metal Temperature, °C [Notes (1) and (4b)]													
	Min. Temp. to 40	65	100	125	150	175	200	225	250	275	300	325	350	375
1	126	119	103	92.4	82.5	73.6	65.7	58.8	52.8	47.8	43.7	40.4	37.8	36.1
2	126	119	103	92.4	82.5	73.6	65.7	58.8	52.8	47.8	43.7	40.4	37.8	36.1
3	184	169	149	139	130	123	116	111	106	101	97.6	94.6	92.4	91.0
4	184	169	149	139	130	123	116	111	106	101	97.6	94.6	92.4	91.0
5	126	119	103	92.4	82.5	73.6	65.7	58.8	52.8	47.8	43.7	40.4	37.8	36.1
6	184	169	149	139	130	123	116	111	106	101	97.6	94.6	92.4	91.0
7	126	119	103	92.4	82.5	73.6	65.7	58.8	52.8	47.8	43.7	40.4	37.8	36.1
8	126	119	103	92.4	82.5	73.6	65.7	58.8	52.8	47.8	43.7	40.4	37.8	36.1
9	184	169	149	139	130	123	116	111	106	101	97.6	94.6	92.4	91.0
10	184	169	149	139	130	123	116	111	106	101	97.6	94.6	92.4	91.0