



A276/A276M – 24a

TABLE 2 Mechanical Requirements

UNS or Type	Condition	Finish	Diameter or Thickness, in. [mm]	Tensile Strength, min		Yield Strength, ^A min		Elonga- tion in 2 in. [50 mm] ^B or 4D min %	Reduc- tion of Area, ^{C, D} min, %	Brinell Hard- ness, HBW unless otherwise indicated, ^E max
				ksi	MPa	ksi	MPa			
Austenitic Grades										
N08020	SA	hot-finished or cold-finished	all	80	[550]	35	[240]	30	50	...
N08367	A	hot-finished or cold-finished	all	95	655	45	310	30	50	...
N08700	A	hot-finished or cold-finished	all	80	550	35	240	30	50	...
N08800 800	A	hot-finished or cold-finished	all	75	515	30	205	30	...	192
N08810 800H	A	hot-finished or cold-finished	all	65	450	25	170	30	...	192
N08811	A	hot-finished or cold-finished	all	65	450	25	170	30	...	192
N08904 904L	A	hot-finished or cold-finished	all	71	490	31	220	35
N08925	A	hot-finished or cold-finished	all	87	600	43	295	40	...	217
N08926	A	hot-finished or cold-finished	all	94	650	43	295	35	...	256
201, 202	A	hot-finished or cold-finished	all	75	515	40	275	40	45	...
S20161	A	hot-finished	all	125	860	50	345	40	40	255
S20162	A	cold-finished	all	125	860	50	345	40	40	311
		hot-finished or cold finished	all	100	690	50	345	50	60	...
205	A	hot-finished or cold-finished	all	100	690	60	414	40	50	...
XM-19	A	hot-finished or cold-finished	all	100	690	55	380	35	55	...
		As hot- rolled	up to 2 [50.8], incl	135	930	105	725	20	50	...
			over 2 to 3 [50.8 to 76.2], incl	115	795	75	515	25	50	...
			over 3 to 8 [76.2 to 203.2], incl	100	690	60	415	30	50	...
S21800	A	hot-finished or cold-finished	all	95	655	50	345	35	55	241
XM-10, XM-11	A	hot-finished or cold-finished	all	90	620	50	345	45	60	...
XM-29	A	hot-finished or cold-finished	all	100	690	55	380	30	50	...
XM-28	A	hot-finished or cold-finished	all	100	690	55	380	30	50	...
S24565	A	hot-finished or cold-finished	all	115	795	60	415	35	40	...
S28200	A	hot-finished or cold finished	all	110	760	60	410	35	55	...
302, 302B, 304, 304LN, 305, 308, 309, 309S, 309Cb, 310, 310S, 310Cb, 314, 316, 316LN, 316Cb, 316Ti, 317, 321, 347, 348	A	hot-finished	all	75 ^F	515	30 ^F	205	40 ^G	50	...
		cold-finished	up to ½ [12.70] incl	90	620	45	310	30	40	...
			over ½ [12.70]	75 ^F	515	30 ^F	205	30	40	...
304L, 316L	A	hot-finished	all	70	485	25	170	40 ^G	50	...
		cold-finished	up to ½ [12.70] incl.	90	620	45	310	30	40	...
			over ½ [12.70]	70	485	25	170	30	40	...
304N, 316N	A	hot-finished or cold-finished	all	80	550	35	240	30
202, 302, 304, 304N, 316, 316N	B	cold-finished	up to ¾ [19.05] incl	125	860	100	690	12	35	...
over ¾ [19.05] to 1 [25.40]			115	795	80	550	15	35	...	
over 1 [25.40] to 1¼ [31.75]			105	725	65	450	20	35	...	
over 1¼ [31.75] to 1½ [38.10]			100	690	50	345	24	45	...	