



A240/A240M – 23

TABLE 2 Mechanical Test Requirements

UNS Designation	Type ^A	Tensile Strength, min		Yield Strength, ^B min		Elongation in 2 in. or 50 mm, min, %	Hardness, max ^C		Cold Bend ^D
		ksi	MPa	ksi	MPa		Brinell. HBW	Rockwell	
Austenitic (Chromium-Nickel) (Chromium-Manganese-Nickel)									
N08020	...	80	550	35	240	30 ^F	217	95 HRBW	not required
N08367	...	...	...	...	...	...	...	...	...
Sheet and Strip		100	690	45	310	30	...	100 HRBW	not required
Plate		95	655	45	310	30	241	...	not required
N08700	...	80	550	35	240	30	192	90 HRBW	not required
N08800	800 ^F	75	520	30 ^G	205 ^G	30 ^H	...	...	not required
N08810	800H ^F	65	450	25 ^G	170 ^G	30	...	...	not required
N08811	...	65	450	25	170	30	...	...	not required
N08904	904L ^F	71	490	31	220	35	...	90 HRBW	not required
N08925	...	87	600	43	295	40	...	...	not required
N08926	...	94	650	43	295	35	...	...	not required
S20100	201-1 ^I	75	515	38	260	40	217	95 HRBW	...
S20100	201-2 ^I	95	655	45	310	40	241	100 HRBW	...
S20103	201L ^F	95	655	38	260	40	217	95 HRBW	not required
S20153	201LN ^F	95	655	45	310	45	241	100 HRBW	not required
S20161	...	125	860	50	345	40	255	25 HRC	not required
S20200	202	90	620	38	260	40	241	...	...
S20400	...	95	655	48	330	35	241	100 HRBW	not required
S20431	...	90	620	45	310	40	241	100 HRBW	not required
S20432	...	75	515	30	205	40	201	92 HRBW	not required
S20433	...	80	550	35	240	40	217	95 HRBW	not required
S20910	XM-19 ^J	...	...	...	...	...	...	...	...
Sheet and Strip		105	725	60	415	30	241	100 HRBW	not required
Plate		100	690	55	380	35	241	100 HRBW	not required
S21600	XM-17 ^J	...	...	...	...	...	...	...	...
Sheet and Strip		100	690	60	415	40	241	100 HRBW	not required
Plate		90	620	50	345	40	241	100 HRBW	not required
S21603	XM-18 ^J	...	...	...	...	...	...	...	...
Sheet and Strip		100	690	60	415	40	241	100 HRBW	not required
Plate		90	620	50	345	40	241	100 HRBW	not required
S21640	...	95	650	45	310	40	...	...	not required
S21800	...	95	655	50	345	35	241	100 HRBW	not required
S21904	XM-11 ^J	...	...	...	...	...	...	...	...
Sheet and Strip		100	690	60	415	40	241	100 HRBW	not required
Plate		90	620	50	345	45	241	100 HRBW	not required
S24000	XM-29 ^J	...	...	...	...	...	...	...	...
Sheet and Strip		100	690	60	415	40	241	100 HRBW	not required
Plate		100	690	55	380	40	241	100 HRBW	not required
S30100	301	75	515	30	205	40	217	95 HRBW	not required
S30103	301L ^F	80	550	32	220	45	241	100 HRBW	not required
S30153	301LN ^F	80	550	35	240	45	241	100 HRBW	not required
S30200	302	75	515	30	205	40	201	92 HRBW	not required
S30400	304	75	515	30	205	40	201	92 HRBW	not required
S30403	304L	70	485	25	170	40	201	92 HRBW	not required
S30409	304H	75	515	30	205	40	201	92 HRBW	not required
S30415	...	87	600	42	290	40	217	95 HRBW	not required
S30416	...	73	500	32	220	40	217	95 HRBW	not required
S30435	...	65	450	23	155	45	187	90 HRBW	...
S30441	...	75	515	30	205	40	201	92 HRBW	not required
S30451	304N	80	550	35	240	30	217	95 HRBW	not required
S30452	XM-21 ^J	...	...	...	...	...	...	...	...
Sheet and Strip		90	620	50	345	30	241	100 HRBW	not required
Plate		85	585	40	275	30	241	100 HRBW	not required
S30453	304LN	75	515	30	205	40	217	95 HRBW	not required
S30500	305	70	485	25	170	40	183	88 HRBW	not required
S30530	...	75	515	30	205	40	201	92 HRBW	not required
S30600	...	78	540	35	240	40	...	...	...
S30616	...	86	590	36	245	40	241	100 HRBW	not required
S30601	...	78	540	37	255	30	...	...	not required
S30615	...	90	620	40	275	35	217	95 HRBW	not required
S30815	...	87	600	45	310	40	217	95 HRBW	...
S30908	309S	75	515	30	205	40	217	95 HRBW	not required
S30909	309H ^F	75	515	30	205	40	217	95 HRBW	not required