

**ASTM A – 194** “Standard Specification for Carbon and Alloy Steel Nuts for Bolts for High-Pressure and High-Temperature Service”

Identification	AISI Type	Outstanding Chemical
<b>Ferritic</b>		
L-7	4140-4142-4145	Chromium-Mooylbdenum
L-7M	4140-4142-4145	Chromium-Mooylbdenum
L-7A	4037	Carbon-Mooylbdenum
L-7B	4137	Chromium-Mooylbdenum
L-7C	8740	Nickel-Chromium-Mooylbdenum
L-43	4340	Nickel-Chromium-Mooylbdenum
<b>Austenitic</b>		
B8, B8A	304	Unstabilized 18 Chromium-8 Nickel
B8-C, B8CA	347	Stabilized 18 Chromium-8 Nickel
B-8M, BBMA	316	18 Chromium-10-Nickel-2 Molybdenum
B-8T, B8TA	321	Stabilized 18 Chromium-8 Nickel
B-8F, B8FA	303	Free Machining 18 Chromium-8 Nickel

*The Ferritic Steel Grades L7 and L7M together with the Austenitic Grades B8 and B8M are normally stocked for immediate shipment, with the other Grades available on special order. Grade L7 is normally used to -50°F without a Charpy Test and to -150°F with a Charpy Test. Grade L7M is normally used in H2S service with a required Charpy Test at -100°F. All of the Austenitic steels listed above may be used to -325°F without a Charpy Impact Test and at lower temperatures with the requisite Impact Tests.*